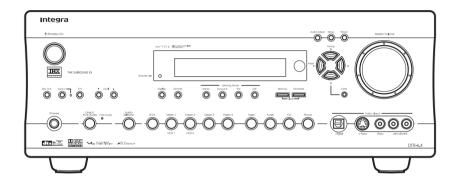
Integra service manual

Ref. No. 3776

July, 2003

AV RECEIVER MODEL DTR-6.4





RC-534M

Black model

BMDD	120V AC, 60Hz
BMPA	230V~240V AC, 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE
MEASUREMENTS TO DETERMINE THAT EXPOSED
PARTS ARE ACCEPTABLY INSULATED FROM THE
SUPPLY CIRCUIT BEFORE RETURNING THE
APPLIANCE TO THE CUSTOMER.

Specifications (DTR-6.4)

AMPLIFIER SECTION

Continuous average power output (FTC)

All channels:

100 W per channel min. RMS at 8 Ω , 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion.

125 W min. RMS at 6 Ω , 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.

Continuous power output (DIN) Maximum power output (EIAJ) Dynamic power output (stereo)

Total harmonic distortion:

 $2 \times 170 \text{ W}$ at 4Ω 2×115 W at 8 Ω 0.08% at rated power 0.08% at 1 W output 0.08% at rated power

IM distortion: Damping factor:

Input sensitivity and impedance

PHONO:

LINE (CD, TAPE, DVD, VIDEO 1-4):

MULTICHANNEL INPUT (FRONT L/C/R, SURROUND

(SUBWOOFER): COAXIAL (DIGITAL): DVD, VIDEO 1, 2, 3, 4:

COMPONENT VIDEO 1, 2:

Output level and impedance Rec out (TAPE, VIDEO 1, 2):

Line out: Pre out:

VIDEO (VIDEO 1, 2, MONITOR OUT):

COMPONENT VIDEO OUT:

Phono overload: Frequency response:

RIAA deviation:

Tone control Bass: Treble:

Signal-to-noise ratio (stereo)

Phono: Line: Muting: 130 W at 6 Ω 160 W at 6 Ω

 $2 \times 230 \text{ W}$ at 3Ω

0.08% at 1 W output 60 at 8 Ω

 $2.5 \text{ mV}, 47 \text{ k}\Omega$

 $200 \text{ mV}, 47 \text{ k}\Omega$

 $200 \text{ mV}, 47 \text{ k}\Omega$ $36 \text{ mV}, 47 \text{ k}\Omega$ 0.5 Vp-p, 75 Ω 1 Vp-p, 75 Ω 1 Vp-p, 75 Ω (Y) $0.28\,\mathrm{Vp}$ -p, $75\,\Omega\,\mathrm{(C)}$

1 Vp-p, 75 Ω (Y) 0.7 Vp-p, 75 Ω (PB, PR)

200 mV, 470 Ω 100 mV, 470 Ω (Zone 2)

1 V, 470 Ω

1 Vp-p, 75 Ω 1 Vp-p, 75 Ω (Y) $0.28 \text{ p-p}, 75 \Omega (C)$ 1 Vp-p, 75 Ω (Y) $0.7 \text{ Vp-p}, 75 \Omega \text{ (PB, PR)}$

70 mV RMS at 1 kHz, 0.5% T.H.D. 10 Hz to 100 kHz: +1/-3 dB

(Direct mode)

20 Hz to 20 kHz: ±0.8 dB

±10 dB at 50 Hz ±10 dB at 20,000 Hz

80 dB (IHF A, 5 mV input, Direct mode) 106 dB (IHF A, 0.5 V input, Direct mode)

-50 dB

TUNER SECTION

FM

Tuning range: 87.5–108.0 MHz (50-kHz steps)

Usable sensitivity Mono: 11.2 dBf, 1.0 μV (75 Ω IHF)

 $0.9 \,\mu\text{V} (75 \,\Omega \,\text{DIN})$ 17.2 dBf, 2.0 μV (75 Ω IHF) Stereo:

90 dB

 $23 \,\mu\text{V} (75 \,\Omega \,\text{DIN})$ 50 dB quieting sensitivity

Mono: 17.2 dBf, 2.0 μV (75 Ω) Stereo: 37.2 dBf, 20 μV (75 Ω)

Capture ratio: $2.0 \, dB$

Image rejection ratio USA & Canadian models: 40 dB Australian models: 85 dB

IF rejection ratio: Signal-to-noise ratio

76 dB Mono: 70 dB Stereo: Alternate channel attenuation: 55 dB Selectivity: 50 dB (DIN) AM suppression ratio: 50 dB

Total harmonic distortion Mono: 0.2%

Stereo: 0.3% Frequency response: 30 Hz-15 kHz, ±1.0 dB 45 dB at 1 kHz Stereo separation:

30 dB at 100 Hz-10 kHz

AM

Tuning range USA & Canadian models: 530 to 1,710 kHz (10-kHz steps)

Australian models: 522 to 1,611 kHz (9-kHz steps) Usable sensitivity: 30 μV Image rejection ratio: 40 dB

IF rejection ratio: 40 dB Signal-to-noise ratio: 40 dB Total harmonic distortion: 0.7%

GENERAL

Power supply

USA & Canadian models: AC 120 V. 60 Hz Australian models: AC 230-240 V, 50 Hz

Power consumption

USA & Canadian models: 6.0 A 620 W Australian models:

17-1/8" × 6-7/8" × 17" Dimensions (W \times H \times D): $435 \times 175 \times 432 \text{ mm}$

Weight

USA & Canadian models: 27.1 lbs. (12.3 kg) Australian models: 13.1 kg (28.9 lbs.)

REMOTE CONTROLLER

Transmitter: Infrared

Approx. 16 ft., 5 meters Signal range: Two "AA" batteries $(1.5 \text{ V} \times 2)$ Power supply:

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses

This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utlise est a rapide. Pour une protection permanente, n'untiliser que fusibles de meme type. Ce darnier est la qu le present symbol est appse.

CIRCUIT NO.	PART NO.	DESCRIPTION
F6901,F6902	252196 or	12A-UL/T-314 or
	252301	12A-TUL-250V, Fuse <d></d>
	252100 or	10A-EAK or
	252307	10A-TL250V, Fuse <a>
F901	252199	10A-UL, Fuse <d></d>
F902	252078,	5A-SE-EAK,
	252244 or	5A-SE-TL250V or
	252278	5A-SE-TL250V, Fuse <a>
F903	252164 or	5A-UL/T-237 or
	252258	5A-T/UL-ST2,Fuse <d></d>
	252075,	2.5A-SE-EAK,
	252241 or	2.5A-SE-TL250V or
	252275	2.5A-SE-TL250V <a>
F9501	252160 or	2.5A-UL/T-237 or
	252254	2.5A-T/UL-ST2,Fuse <d></d>
	252075,	2.5A-SE-EAK,
	252241 or	2.5A-SE-TL250V or
	252275	2.5A-SE-TL250V, Fuse <a>

Note: <D>:120V model only <A>: Australian model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- 1.Press and hold down the VIDEO-1 button, then press the STANDBY/ON button.
- 2.After "CLEAR" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.

3. Safety-check out

(U.S.A. model only)

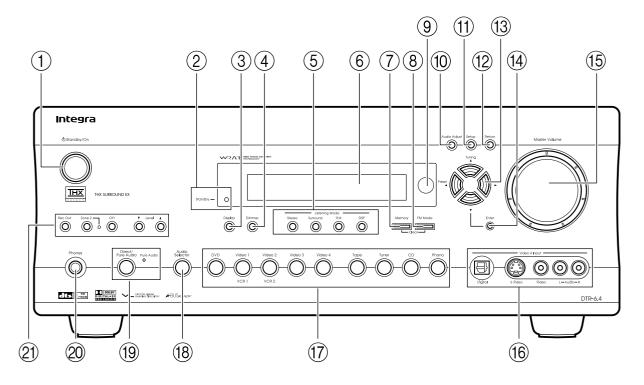
After correcting the original service problem, perform the following safety check before releasing the set to the customer. Leakage Current Check

Measure leakage current to a known earth ground(water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and exposed metal parts of the appliance (input/output terminals, screwheads,metal overlays, etc.). Plug the power supply cord directly into a 120V AC 60 Hz outlet and turn Standby switch on. Any current meausred must not exceed 0.5mA.

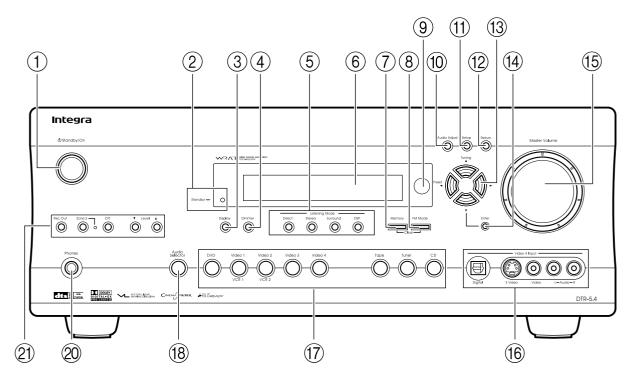
Index parts and facilities

Here is an explanation of the controls and displays on the front panel of the DTR-6.4/5.4.

DTR-6.4 Front panel



DTR-5.4 Front panel





Standby/On button

If pressed with the Power switch turned on (with the receiver plugged in for US models), the DTR-6.4/5.4 turns on and the display lights up. If pressed again, the DTR-6.4/5.4 returns to the standby state. In the standby state, the display is turned off and the DTR-6.4/5.4 cannot be operated.



Standby indicator

Lights when the DTR-6.4/5.4 is in the standby state and when a signal is received from the remote controller.



Display button

Press to display information about the current input source signal. Each time you press the display button, the screen changes to show you different information concerning the input signal.



Dimmer button

Press to set the brightness of the front display. There are three settings available: normal, dark, and very dark.



Listening Mode buttons

Press these buttons to select a listening mode for the current input source. Press the Direct (DTR-5.4), THX (DTR-6.4), Stereo, and Surround buttons to select a listening mode directly. Press the DSP button to select any of the possible listening modes for the input source currently selected.

Note:

During playback of a multichannel source, press the Direct button to turn off the tone control and the Surround button to turn on the tone control.



Front display



Memory button

Press to assign the radio station that you are currently tuned into to a preset channel or press to delete a previously preset station.



FM Mode button

Press to change the stereo mode from Auto to Mono and vice versa. Each time this button is pressed, the Auto indication turns on and off indicating the current mode. If you are listening to an FM radio station in stereo and the sound cuts out or there is a great deal of noise, switch from Auto to Mono.



Remote control sensor



Audio Adjust button

Press to adjust the sound quality and the listening mode.



Setup button

Press to enter the Setup Menu. The OSD Menu will appear on the TV monitor as well as the front display on the DTR-6.4/5.4.



Return button

When in the Setup Menu, press to go back one level. If pressed while at the Main Menu, you will exit the Setup Menu.



Tuning ▲/▼, Preset ◄/▶, cursor (▲/▼/◄/▶) buttons

To tune into a radio station, press the Tuning $\blacktriangle/\blacktriangledown$ buttons. The tuner frequency is displayed in the front display and it can be changed in 100-kHz increments for FM and 10-kHz increments for AM.

When FM is selected as the input source, you can hold down either the Tuning \blacktriangle or \blacktriangledown button and then release it to activate the autosearch feature. It will search for a station in the direction of the button you pressed and stop when it tunes into one. When navigating through the menu settings, these buttons move the cursor up or down (or change the highlighted item).

To select a radio station that was stored using the Memory button, press the Preset ◄/► buttons.

When navigating through the menu settings, these buttons select the value or item that you selected with the Tuning \triangle/∇ buttons.

When you press the Menu button, the Tuning and Preset buttons become cursor buttons to be used for Setup Menu operations.



Enter button

Press to display the screen for the item that is selected in the Setup Menu



Master Volume dial

Use to control the volume in the main zone. The volume for the remote zone (Zone 2) is independent.



Video 4 Input terminals

For connecting a video camera or game device.



Input source buttons (DVD, Video 1–4, Tape, Tuner, CD, and Phono (DTR-6.4 only))

These buttons are used to select the input source.

Press these buttons to select the input source for the main zone.

To select the input source for the remote zone (Zone 2) or recording out (Rec Out), first press the Zone 2 or Rec Out button, and then press the desired input source button.



Audio Selector button

Press to select the type of audio input signal.



Direct/Pure Audio button and Pure Audio indicator (DTR-6.4 only)

Press to select the Pure Audio or Direct mode.

The Pure Audio indicator lights during pure audio playback.



Phones iack

This is a standard stereo jack for connecting stereo headphones.



Rec Out, Zone 2, Off, Level ▼/▲ buttons, and Zone 2 indicator

The Rec Out and Zone 2 buttons allow you to use the DTR-6.4/5.4 to output to a remote zone (Zone 2) or to another component for recording (Rec Out). Press the Rec Out button to output the audio signals to a recording component for recording. Press the Zone 2 button to enjoy the output from the DTR-6.4/5.4 in a different room, which is referred to as the remote zone (Zone 2). When either button is pressed, the currently selected input source for recording or outputting to the remote zone is displayed in the front panel display. If "SOURCE" is displayed, then the same input source as that selected for the main zone will be output.

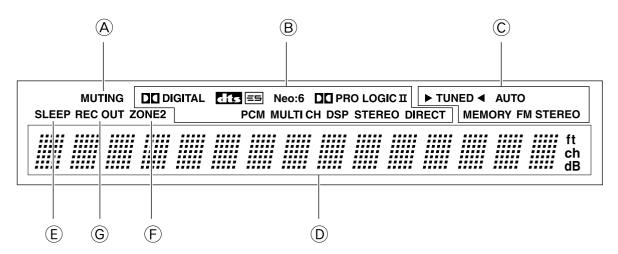
To select an input source, press the desired button (Rec Out or Zone 2) and then press one of the input source button within 5 seconds. That source will be output for recording or viewing in the remote zone.

To set the output to the source channel, press the desired button (Rec Out or Zone 2) twice in succession. To turn off the output, press the Off button. The Zone 2 indicator lights when a signal is output to the remote zone (Zone 2). When the Zone 2 indicator is off, then either output to the remote zone is turned off or Rec Out is selected. Press the Level \(\neq //\lefta\) buttons to enter the mode for adjusting the volume in the remote zone (Zone 2).

Note:

The Rec Out and Zone 2 buttons use the same circuit and therefore cannot be used at the same time. When Rec Out is selected, nothing is output to Zone 2. When Zone 2 is selected, Rec Out is automatically fixed to Source.

Front panel display



(A) MUTING indicator

Flashes when the mute function is turned on.

B Listening mode or digital input format indicators

One of these indicators lights to show the format of the current input source. In addition, one of the listening mode indicators lights to indicate the current listening mode.

© Tuning indicators

TUNED indicator

Lights when a radio station is received.

AUTO indicator

Lights when receiving FM broadcasts in the stereo mode. Turns off when placed into the monaural mode.

MEMORY indicator

Lights when the Memory button is pressed to preset a radio station.

FM STEREO indicator

Lights when an FM broadcast station is received in stereo.

(D) Multi function display

During normal operation, shows the current input source and volume. When the FM or AM input is selected, shows the frequency and preset number. When the Display button is pressed, shows the listening mode and input source format. However, does not show the source format when the FM or AM source is selected.

© SLEEP indicator

Lights when the sleep timer is turned on.

© ZONE 2 indicator

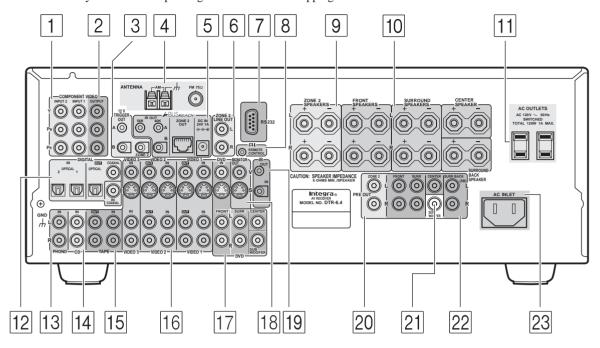
Lights when using the remote zone (Zone 2).

G REC OUT indicator

Lights when recording the input source from one component to another (Rec Out)

Rear panel

This illustration shows the DTR-6.4 shipped to the North American area. The number and shape of the terminals may be different depending on the model and shipping area.



COMPONENT VIDEO INPUT 1/2

These connectors are for connecting to the component video outputs of video components that have them.

2 COMPONENT VIDEO OUTPUT

These jacks are for connecting to the component video input jacks on television monitors or projectors.

12V TRIGGER OUT A/B/ZONE 2

These connectors are used to connect to the 12V TRIGGER IN terminal of a component in the remote zone (Zone 2) if one has one.

4 ANTENNA

These jacks are for connecting the FM indoor antenna and AM loop antenna that are supplied with the DTR-6.4/5.4.

5 A-BUS Ready

Use these terminals to connect the multi-home extension kit of the A-BUS system.

2 ZONE 2 LINE OUT

These jacks are for connecting the components that will be used in the remote zone (Zone 2).

7 RS232

This connector is for connecting to the RS-232 port of an external device.

8 4

This jack is for connecting other Integra/Onkyo components equipped with the same $\mathbf{R}\mathbf{I}$ terminal. The audio connection cables must also be connected.

9 ZONE 2 SPEAKERS

These terminals are for connecting the speakers that will be used in the remote zone (Zone 2).

10 SPEAKERS

These terminals are for connecting the speakers.

AC OUTLETS

This AC outlet is provided to plug in the power cord from another component.

DIGITAL INPUT/OUTPUT

These jacks are for connecting components with digital input and output capabilities. For more information on connection between the components, refer to each component's document.

13 PHONO IN L/R (DTR-6.4 only)

These jacks are for connecting a turntable.

14 CD IN L/R

These jacks are for connecting a CD player.

15 TAPE IN/OUT L/R

These jacks are for connecting a cassette tape deck.

16 VIDEO 1-3 IN/OUT

These connectors are for connecting to the video input and output jacks on video components.

17 DVD IN

These jacks are for connecting a DVD player.

18

MONITOR OUT VIDEO/S VIDEO

These jacks are for connecting to the video input jacks on television monitors or projectors.



IR IN/OUT

These connectors are for connecting the remote sensor of a multiroom kit (sold separately).

20

PRE OUT ZONE 2

When using the power ampliPer for Zone 2 speakers, connect the power ampliPer to these terminals.



PRE OUT (SUBWOOFER)

This jack is for connecting a subwoofer with a built-in power ampliPer.



PRE OUT (FRONT/ SURR/ CENTER/ SURR BACK) (DTR-6.4 only)

To use the DTR-6.4 as a preampliPer, connect a power ampliPer to these jacks.

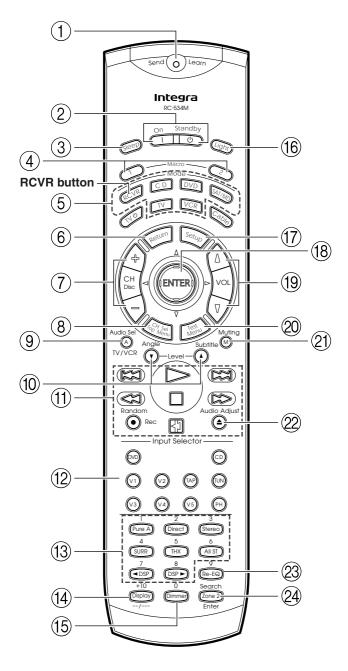


AC INLET

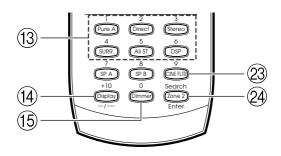
This connector is for connecting the supplied power cord.

Remote controller

RC-534M (for DTR-6.4)



RC-517M (for DTR-5.4)



Index parts and facilities

The RC-534M/517M is a multi-functional remote controller. The instructions given here only explain how to use the remote controller in conjunction with the DTR-6.4/5.4. To operate the DTR-6.4/5.4 using the remote controller, **first press the RCVR Mode button** to place the remote controller in the receiver mode.



Send/Learn indicator

Lights red when signals are sent by the remote controller. It also flashes when a button is pressed when the battery power is low.



On/Standby button

On: Press to turn on the DTR-6.4/5.4.

Standby: Press to place the DTR-6.4/5.4 in the standby state. Be aware that pressing the Standby button only places the DTR-6.4/5.4 in standby and does not turn the power completely off.



Sleep button

Press to set the sleep function.

The Sleep button enables you to set the DTR-6.4/5.4 to turn off automatically after a specified time period.



Macro 1, 2 button

Press to program or execute the macro function.



Mode buttons and indicators

Press to select the component to be operated by the remote controller. When a Mode button is pressed, it will light for 8 seconds. The selected Mode button will also light whenever any other operation button is pressed.



Return button

Press to enter the selected setting and return to the previous menu.



CH +/=, Disc + button

Press to select a preset channel for the tuner (CH).



CH Sel button

Press to select a speaker channel when adjusting the speaker level (CH Sel).



Audio Sel

Press to select the audio input signal.



Level ▼ / ▲ buttons

Press to adjust the volume of the speaker selected using the CH Sel button.



Operation buttons

Press to operate other devices connected to the DTR-6.4/5.4.



Input Selector buttons

Press to select an input source.

Same as the input selector buttons on the front panel of the DTR-6.4/5.4. The input source for each button is given here. DVD:DVD, CD:CD, V1:VIDEO1, V2:VIDEO2, V3:VIDEO3, V4:VIDEO4, V5:VIDEO5 (not used with the DTR-6.4/5.4), TAP:TAPE, TUN:FM/AM, PH:PHONO (not used with the DTR-5.4).



Listening mode buttons

You can select a listening mode.



Display button

For changing the display in the front display.



Dimmer button

Adjusts the display brightness.

There are three settings available: normal, dark, and very dark.



Light button (RC-534M only)

Press to turn on and off the lights in the buttons of the remote controller.



Setup button

Press to display the Setup Menu on the TV screen and in the display. Press again to exit the menu.



▲/▼/⋖/▶, ENTER button

When in the Setup Menu, press the upper and lower arrow buttons to select an item, press the right and left arrow buttons to select parameter values or modes, and press the ENTER button to advance to the next item.



VOL △/∇ button

Press to adjust the volume.



Test button

This button is used to set the speaker output levels. Use this button in conjunction with the Level $\blacktriangle/\blacktriangledown$ and CH Sel buttons to calibrate the speakers levels without entering the Setup Menu.



Muting button

Press to activate the mute function.



Audio Adjust button

Press to adjust the sound quality and the listening mode.



Re-EQ button (DTR-6.4)

Depending on the listening mode, you can turn the Re-EQ function on or off.



CINE FLTR button (DTR-5.4)

Depending on the listening mode, you can turn the CinemaFILTER function on or off.



Zone 2 button

Press to perform operations on the remote zone (Zone 2).

Supplied accessories

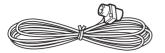
Check that the following accessories are supplied with the DTR-6.4/5.4.



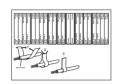
AM loop antenna



Remote controller 1 DTR-6.4: RC-534M DTR-5.4: RC-517M Batteries (AA or R6) 2



FM indoor antenna 1



Speaker cable label 1



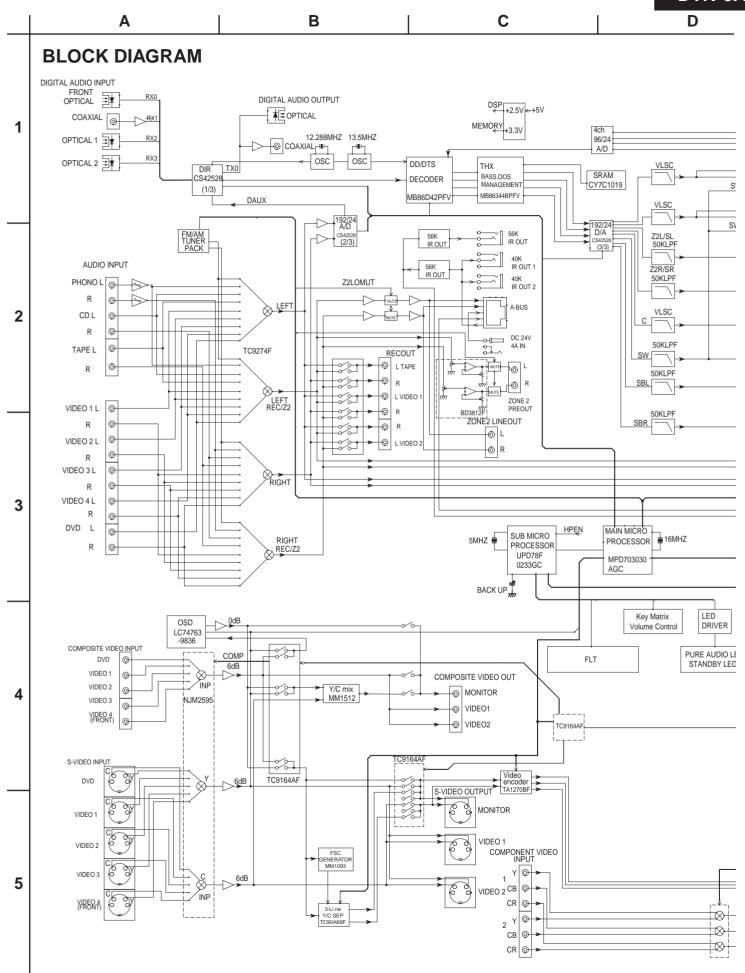
75/300 antenna adapter 1 (Australian model only)

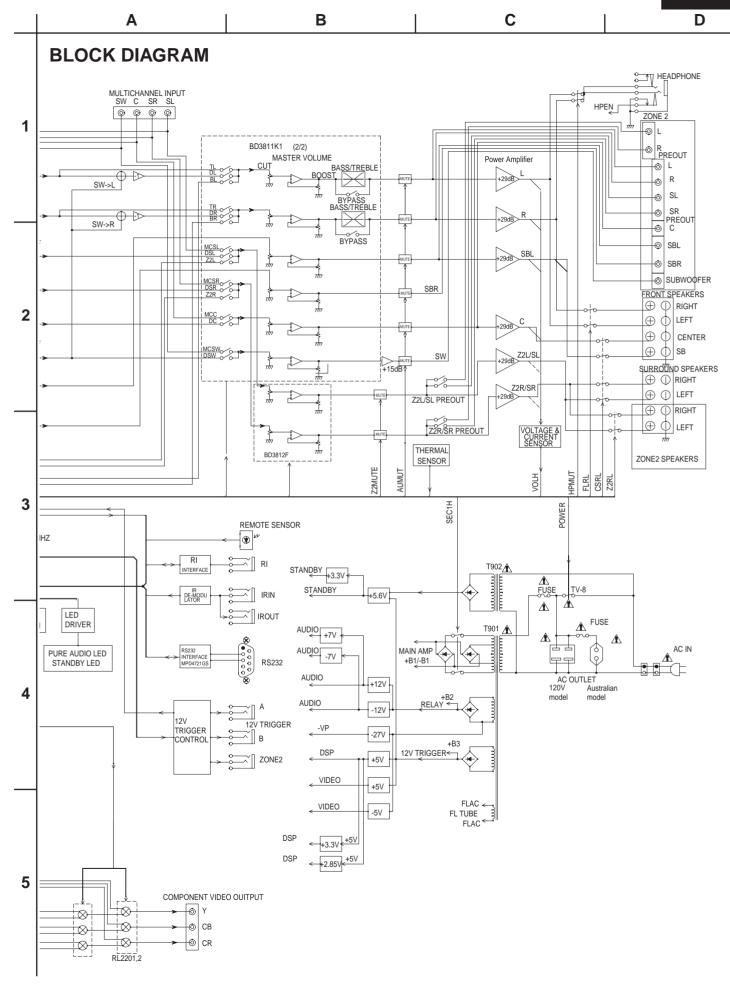


Power cord 1 (The shape of the power cord plug will be different depending on the shipping area.)

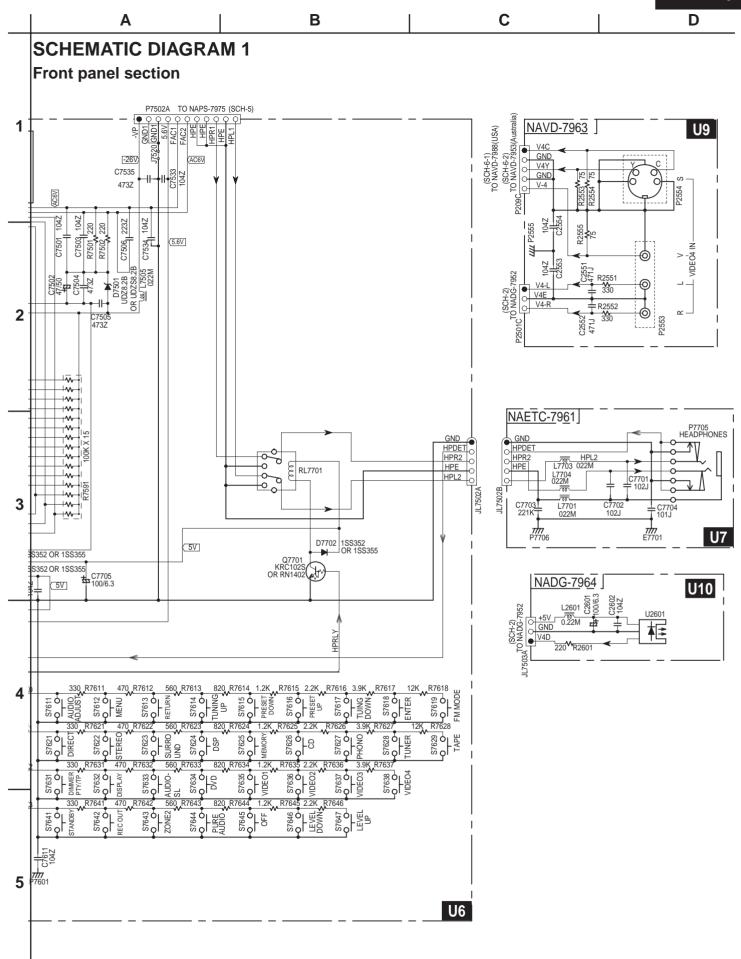


Quick Setup Guide 1



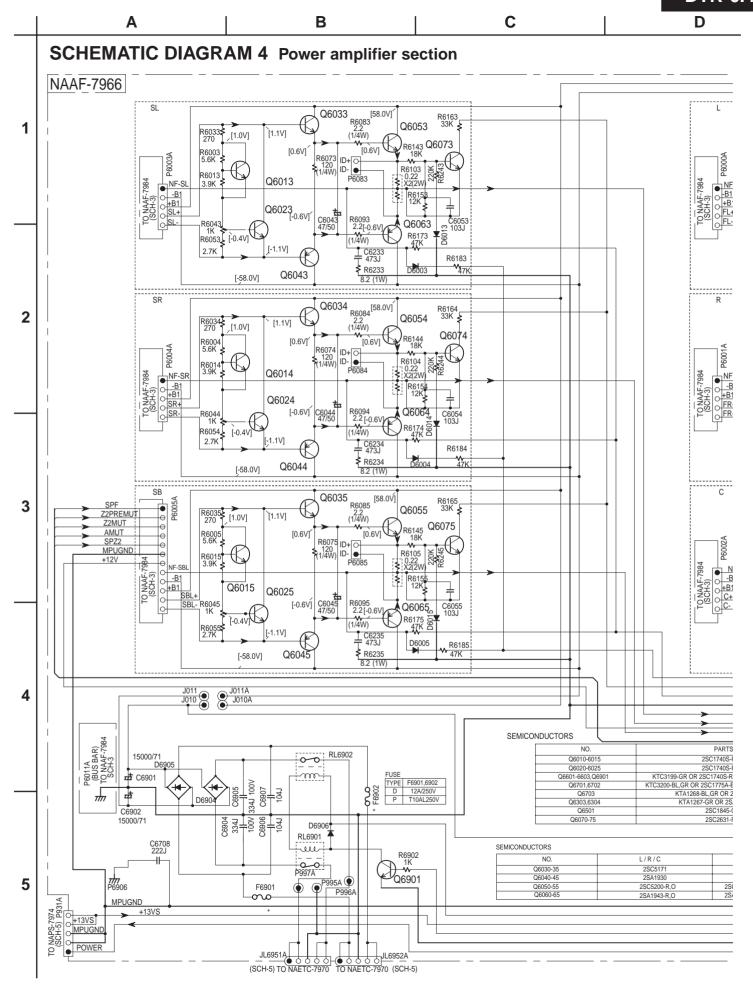


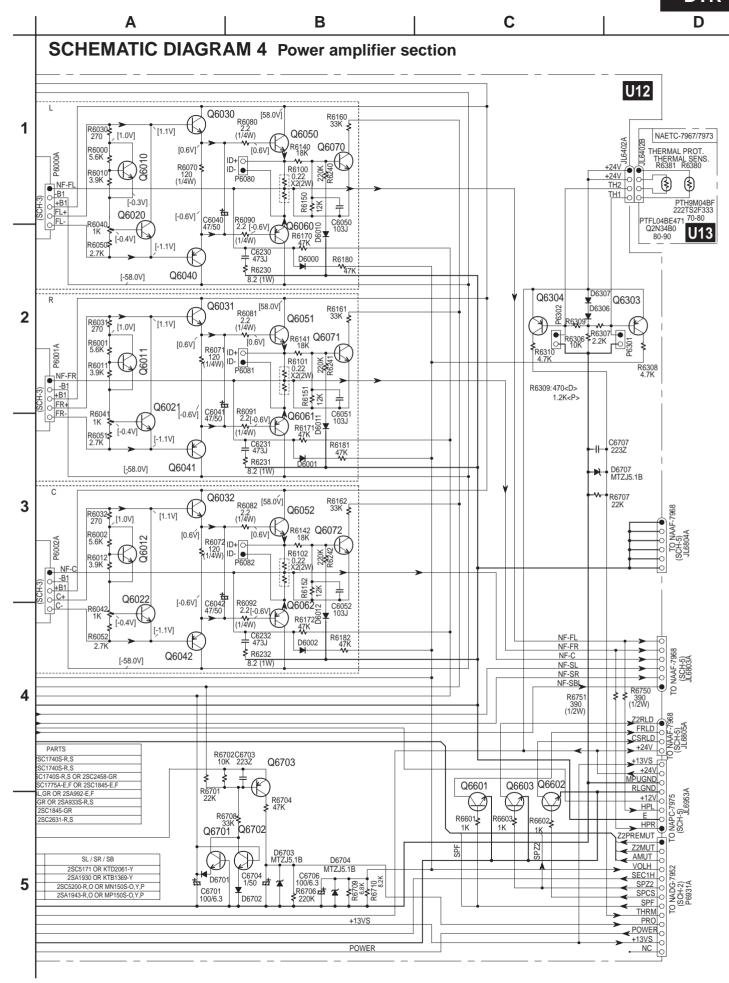
TO NADG-7952(SCH-2)

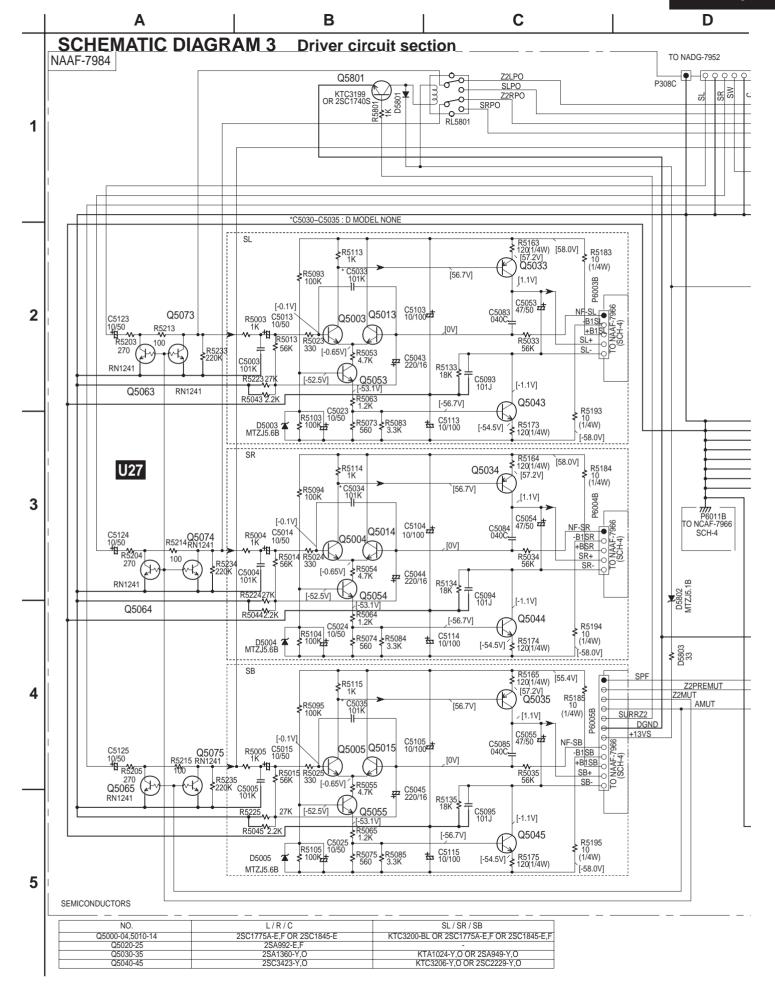


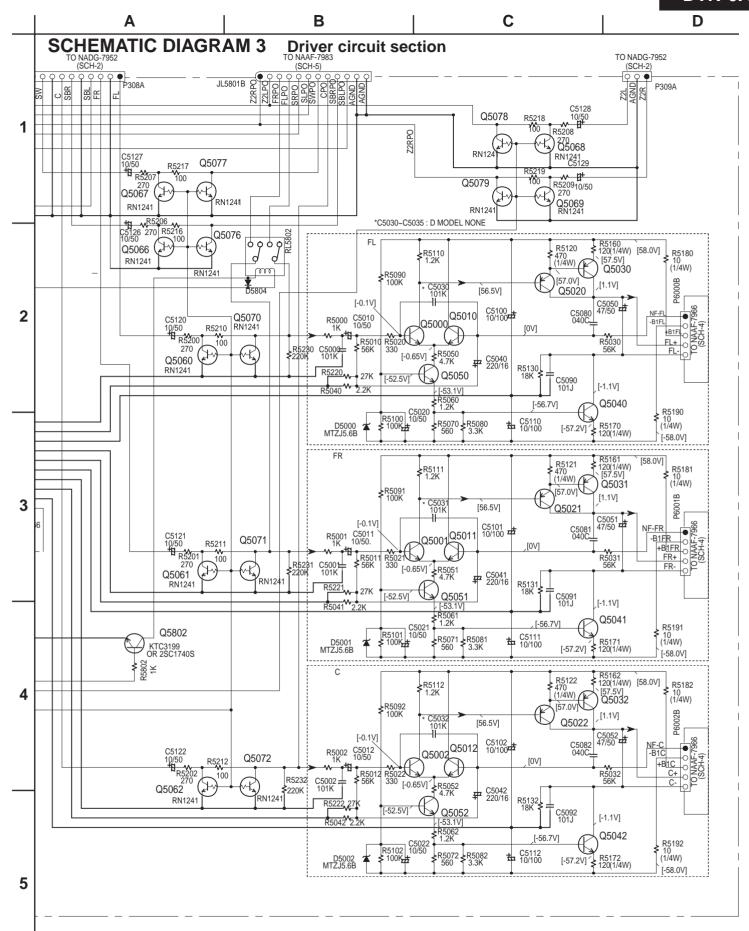
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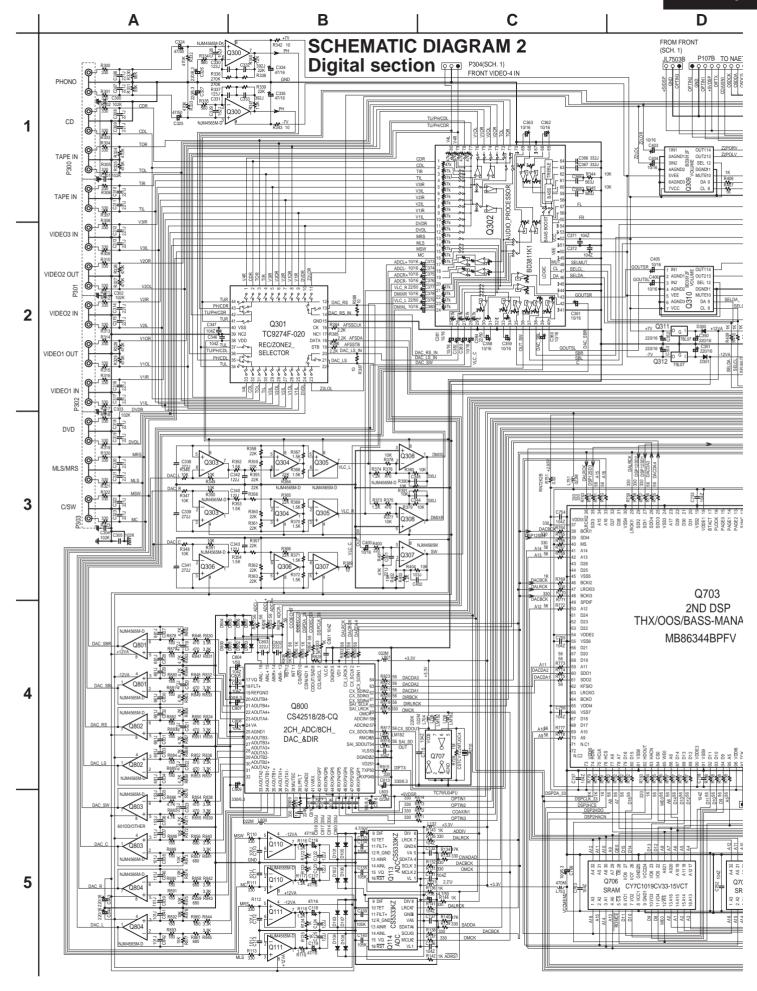
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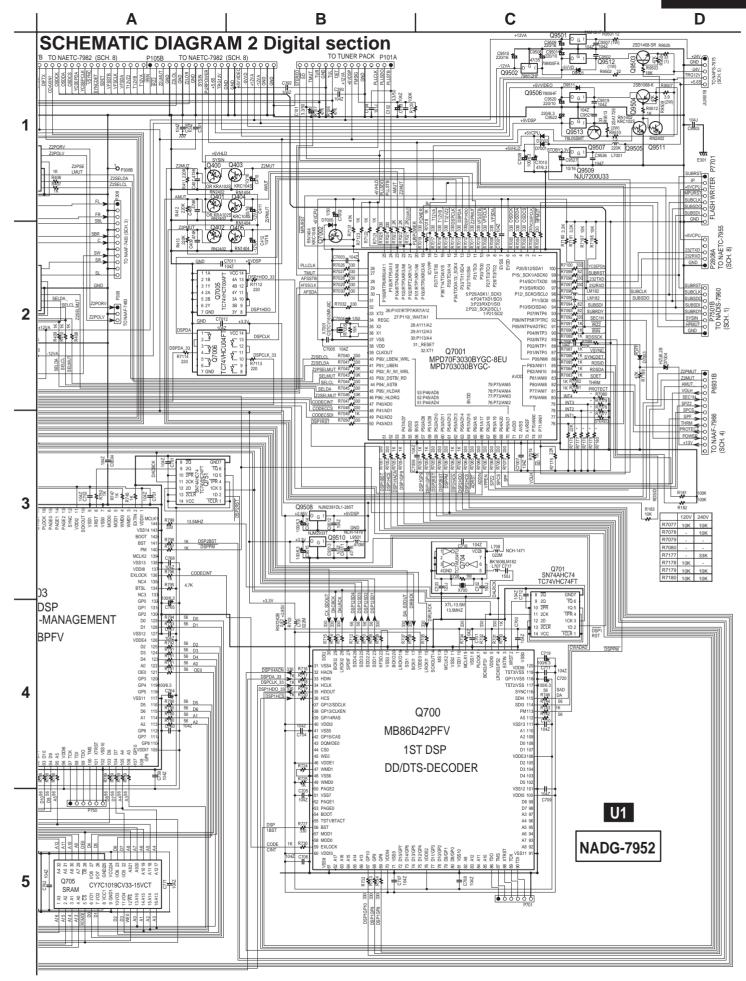


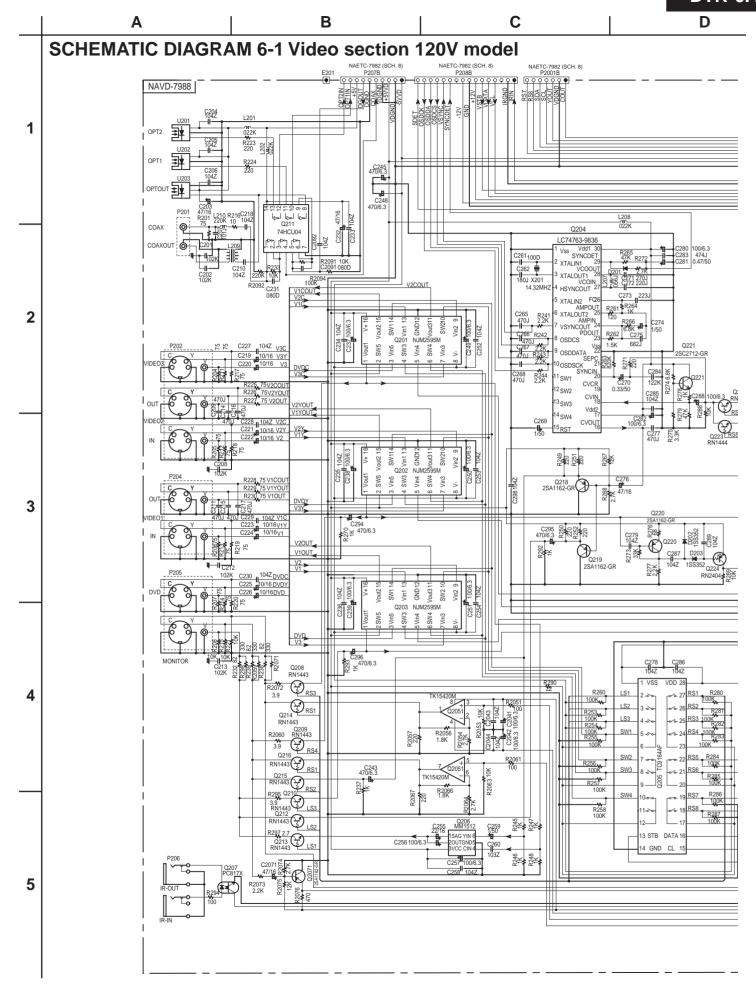




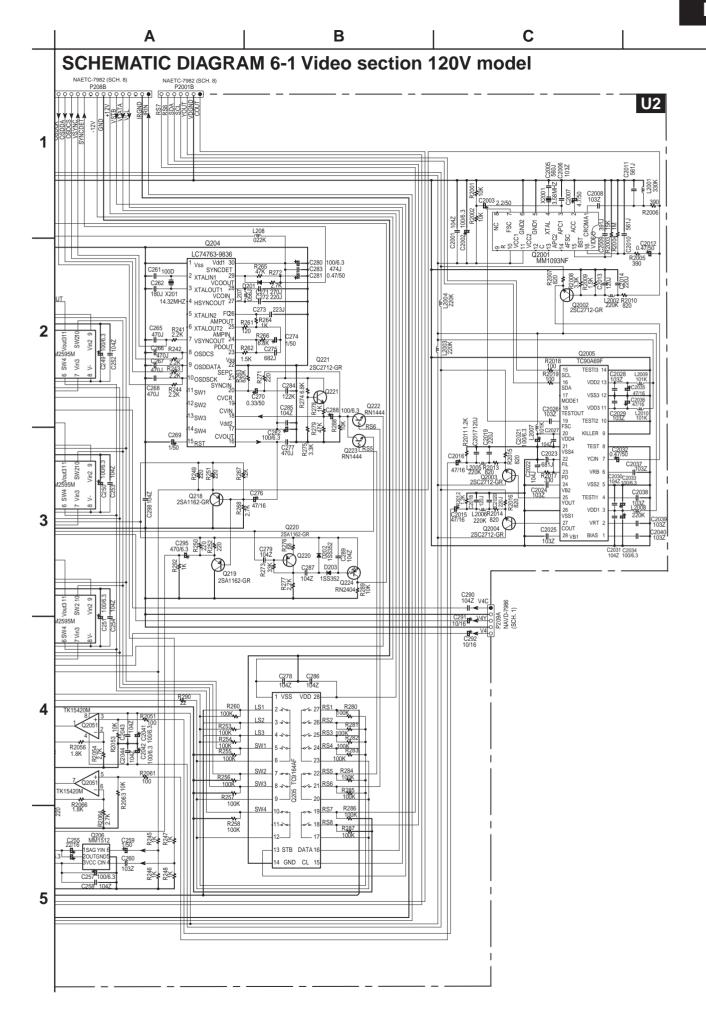




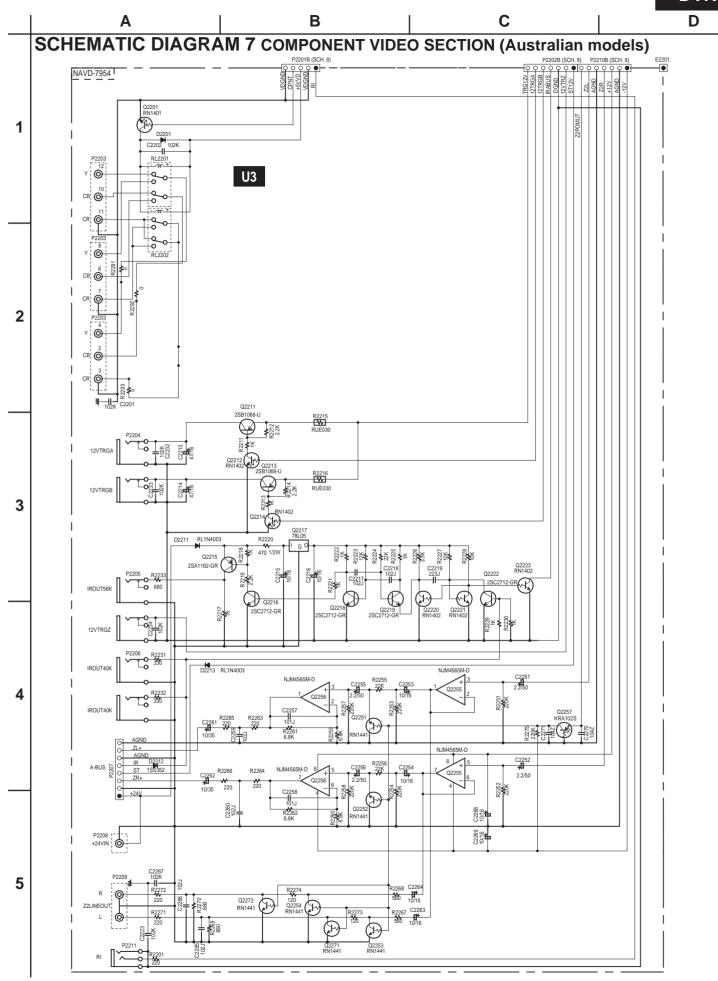




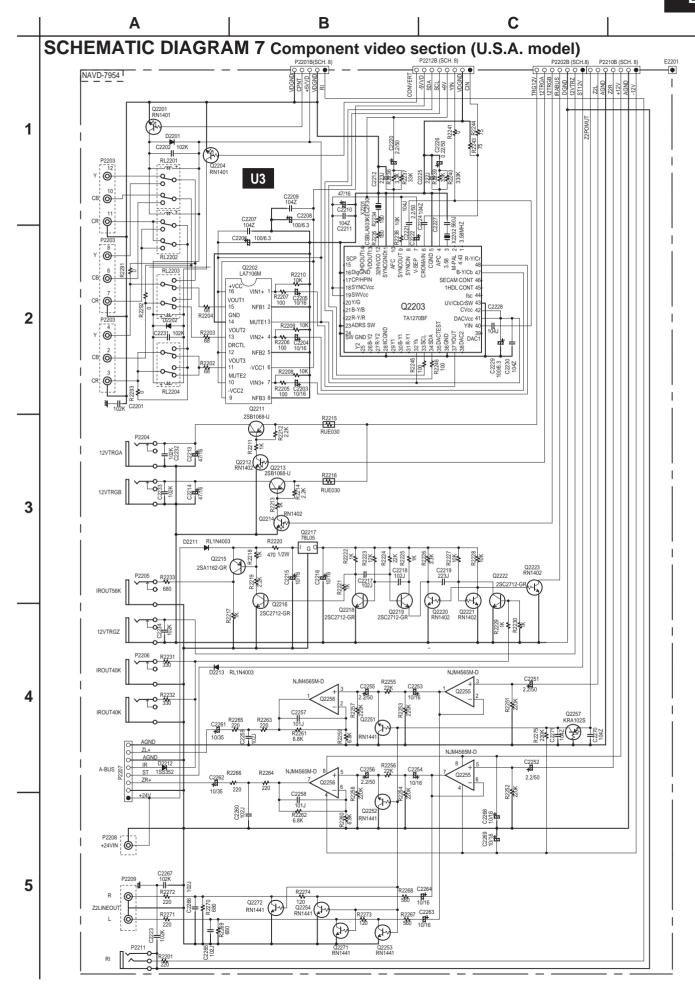
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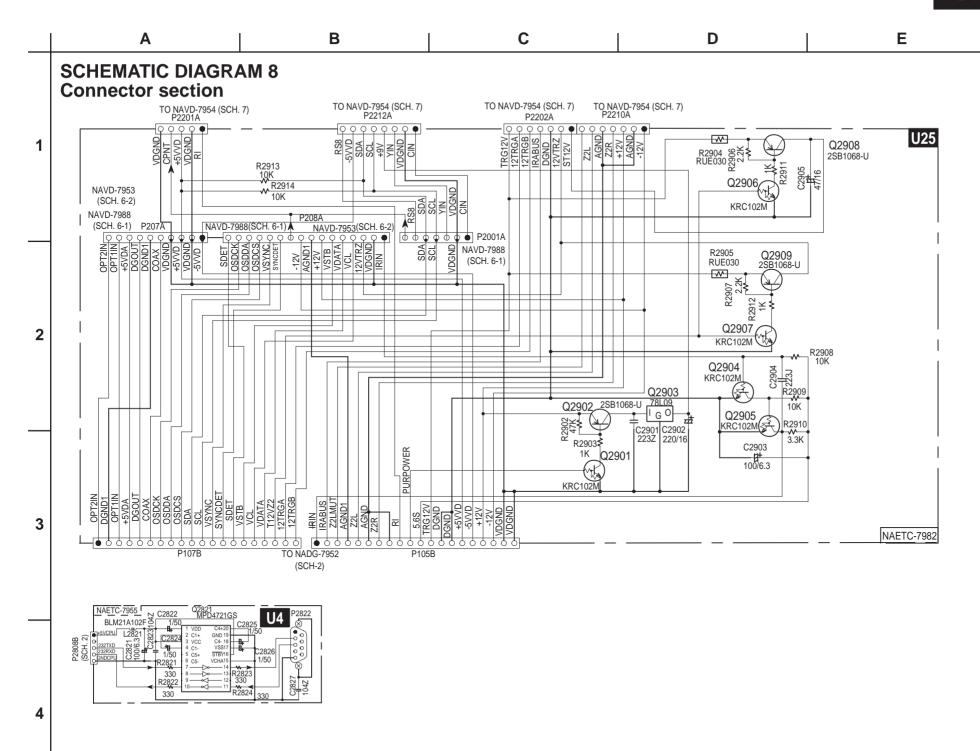


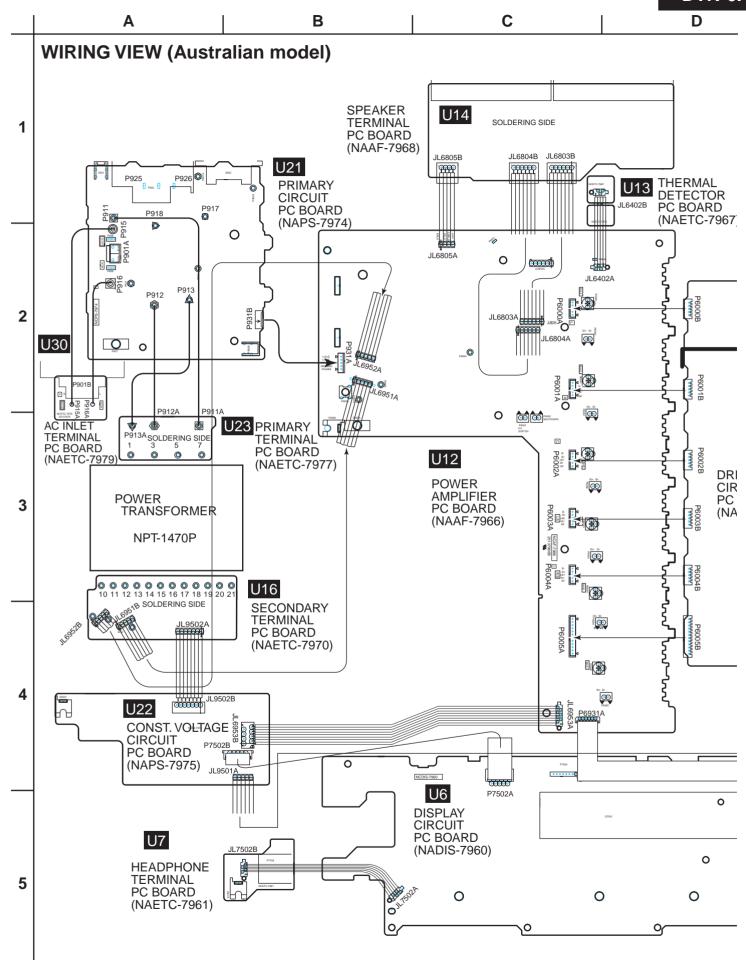
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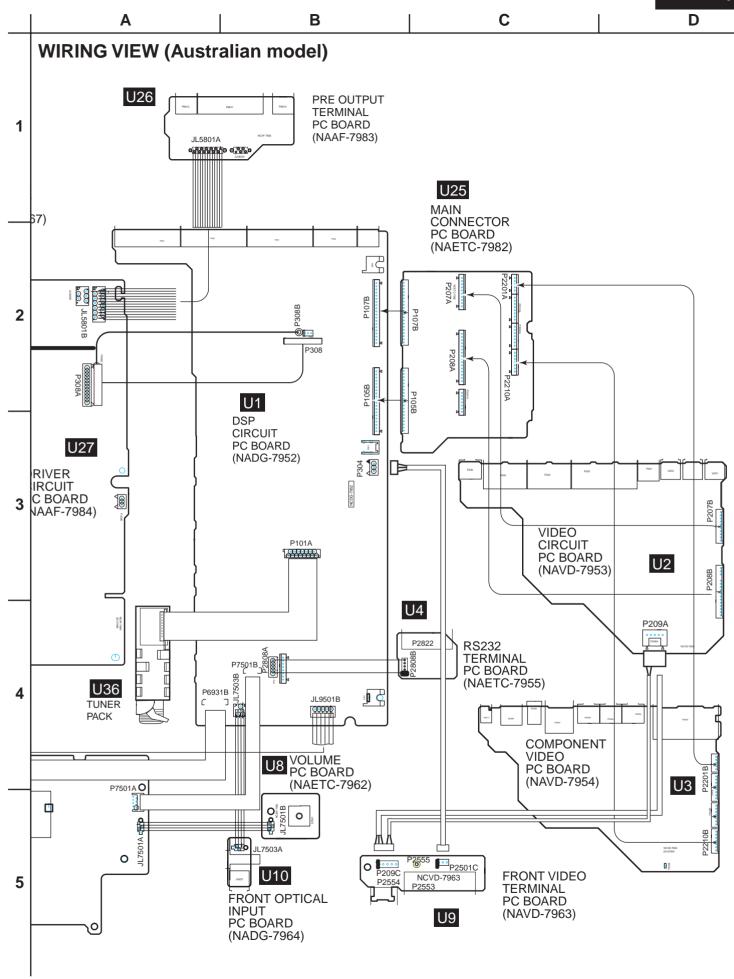


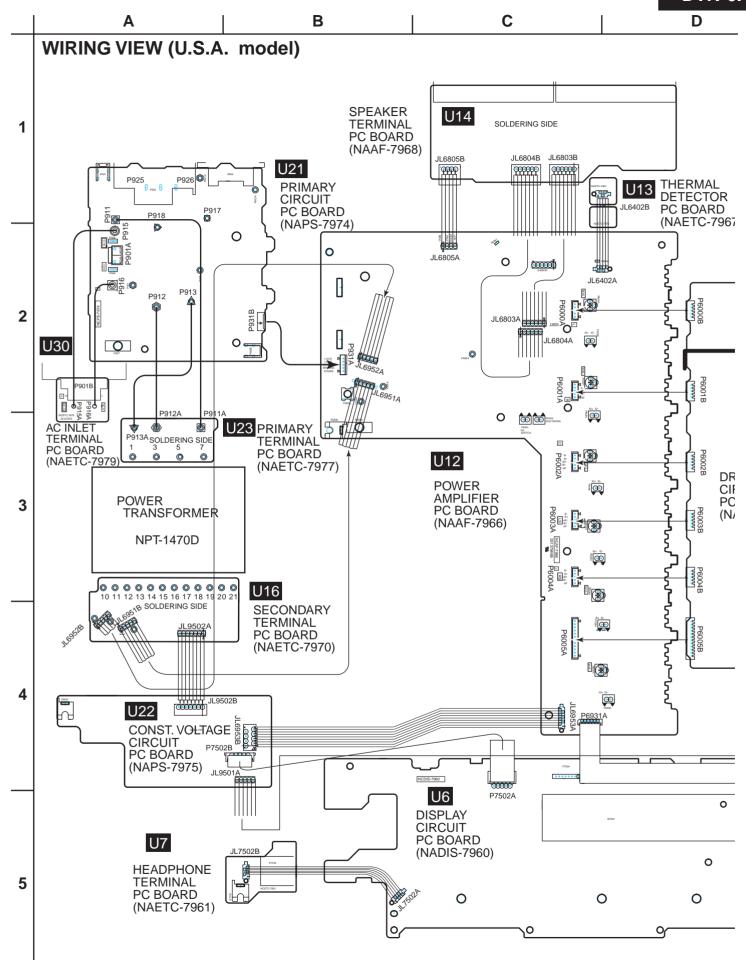
D

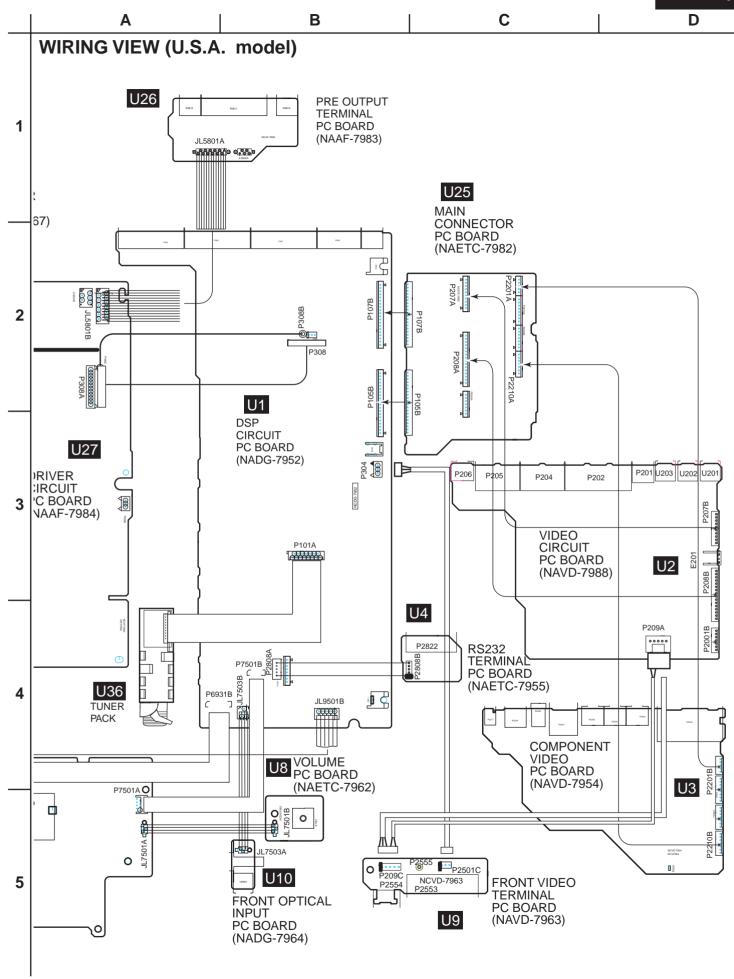


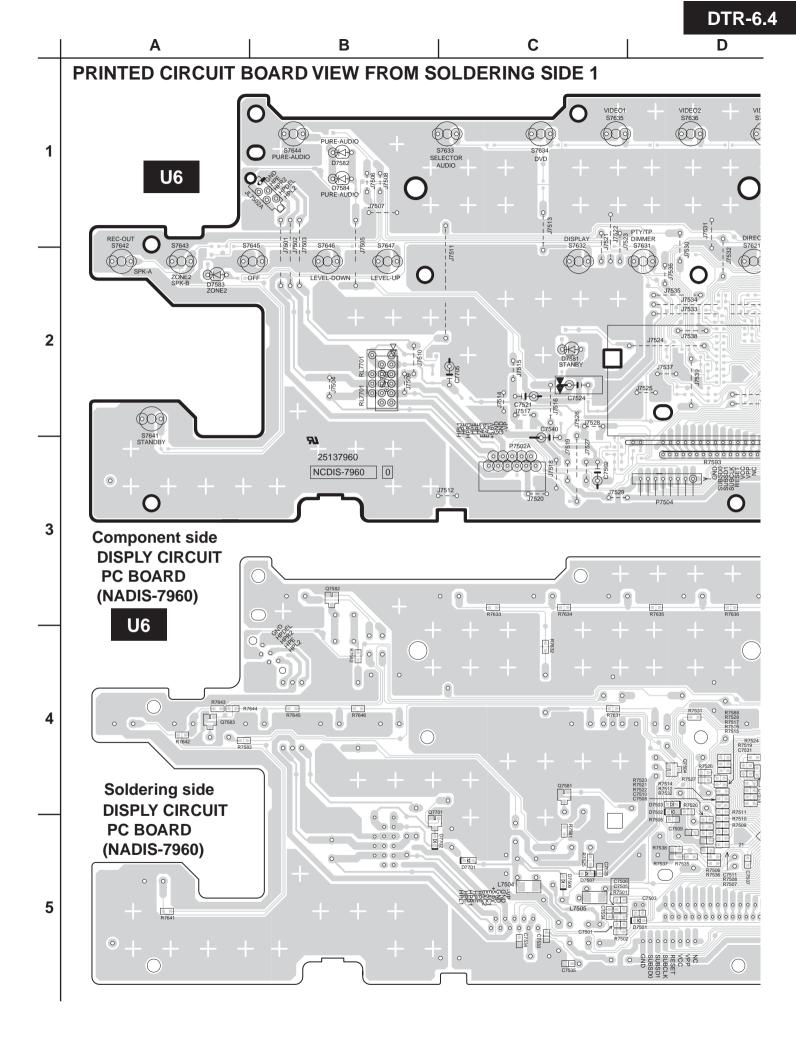


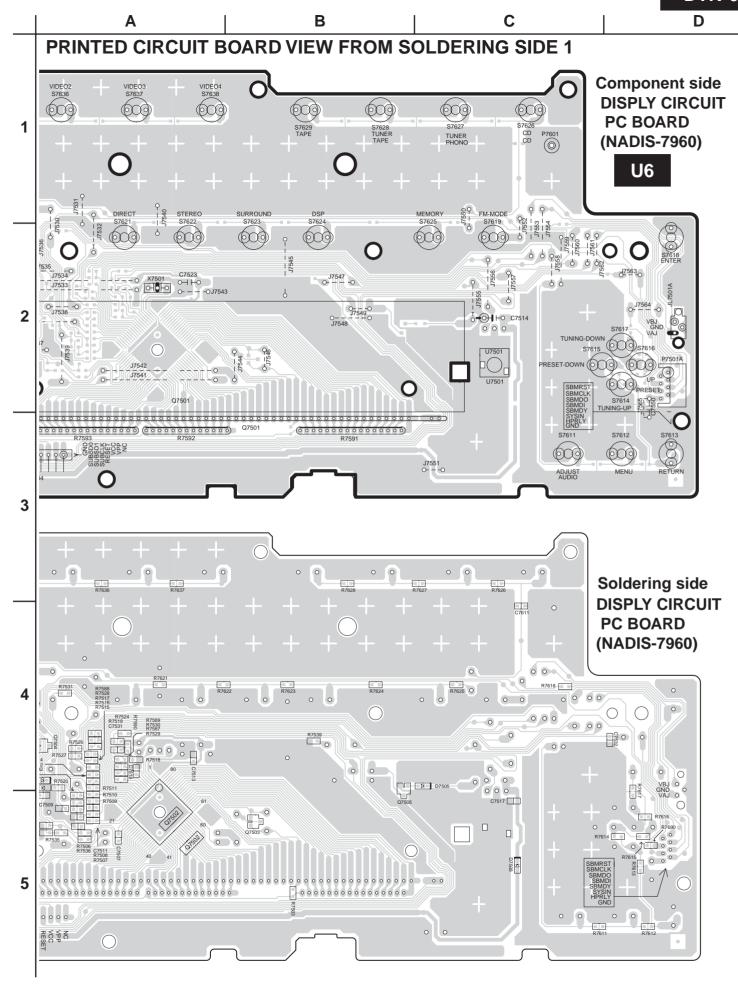










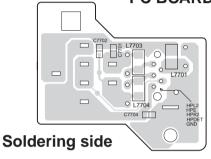


PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 1-2

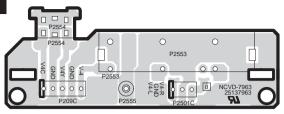
9 JL7502B 9 P7705 D JL7502B 9

Component side

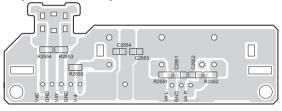
HEADPHONE TERMINAL PC BOARD(NAETC-7961)



U9



Component side FRONT VIDEO TERMINAL PC BOARD (NAVD-7963)



Soldering side FRONT VIDEO TERMINAL PC BOARD (NAVD-7963)

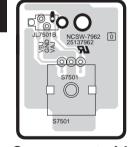
3

4

U8

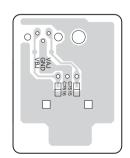
1

2



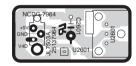
Component side

VOLUME PC BOARD (NASW-7962)



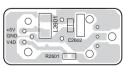
Soldering side VOLUME PC BOARD (NASW-7962)

U10



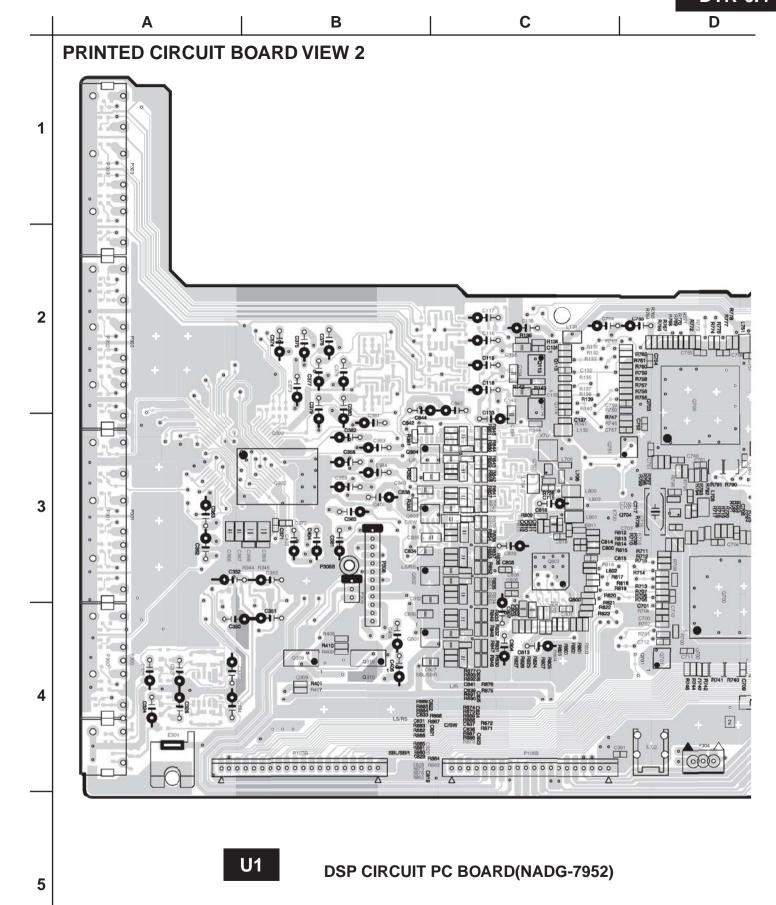
Component side

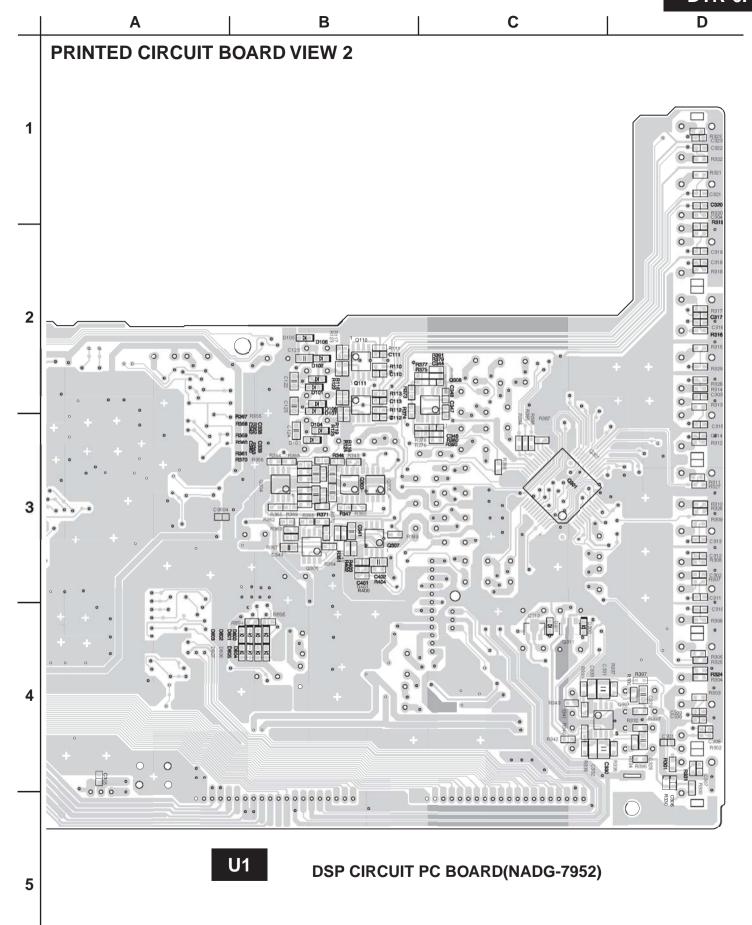
FRONT OPTICAL INPUT PC BOARD (NADG-7964)



Soldering side

FRONT OPTICAL INPUT PC BOARD (NADG-7964)





D

A | B | C

PRINTED CIRCUIT BOARD VIEW 2

1

2

3

4

5

U1

PRINTED CIRCUIT BOARD VIEW 2

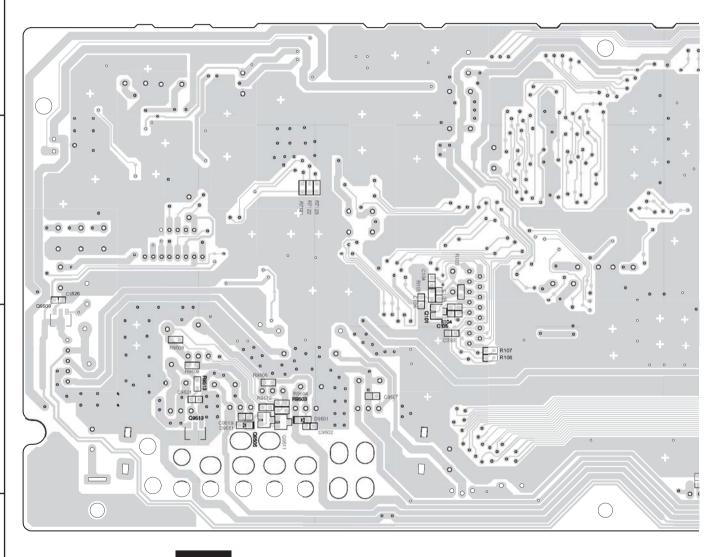
1

2

3

4

5



U1

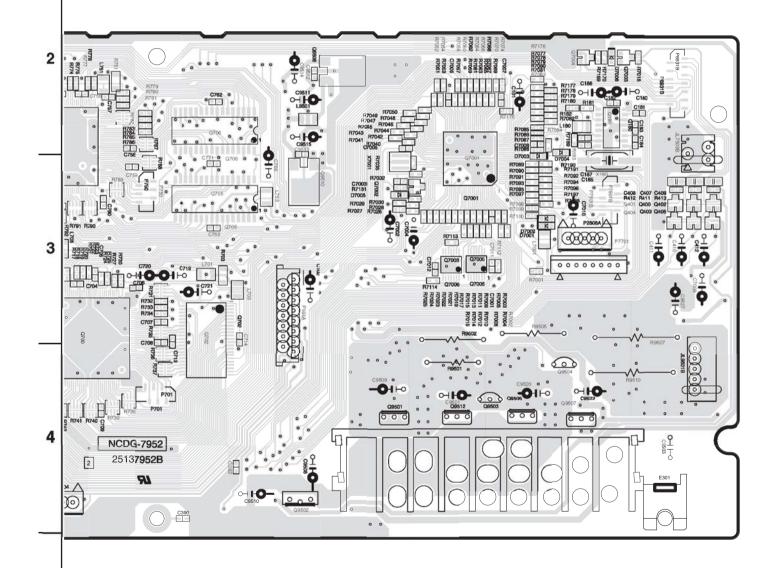
D

A | B | C |

PRINTED CIRCUIT BOARD VIEW 2

1

5



U1

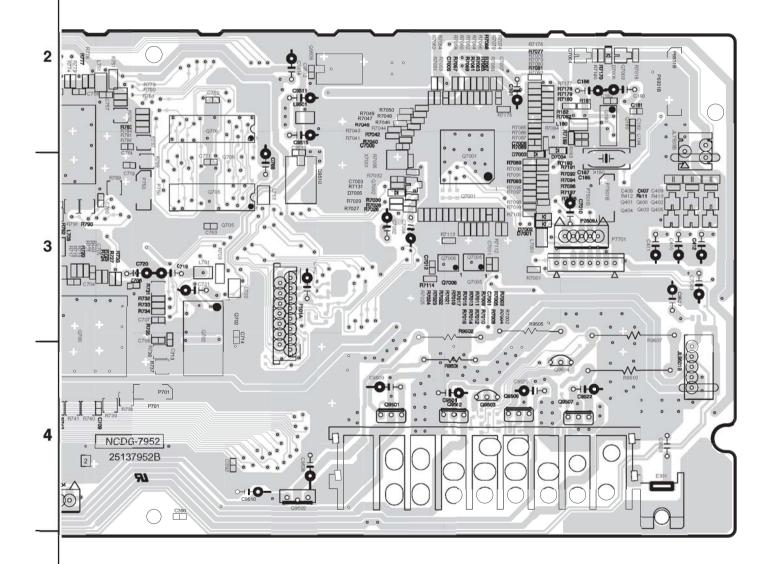
D

A | B | C |

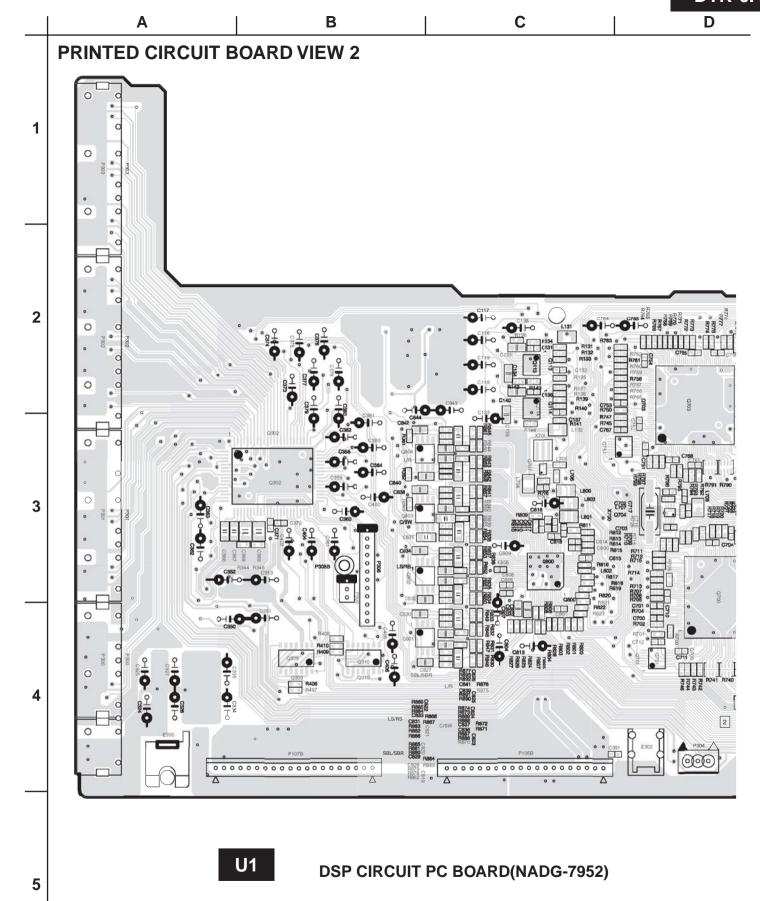
PRINTED CIRCUIT BOARD VIEW 2

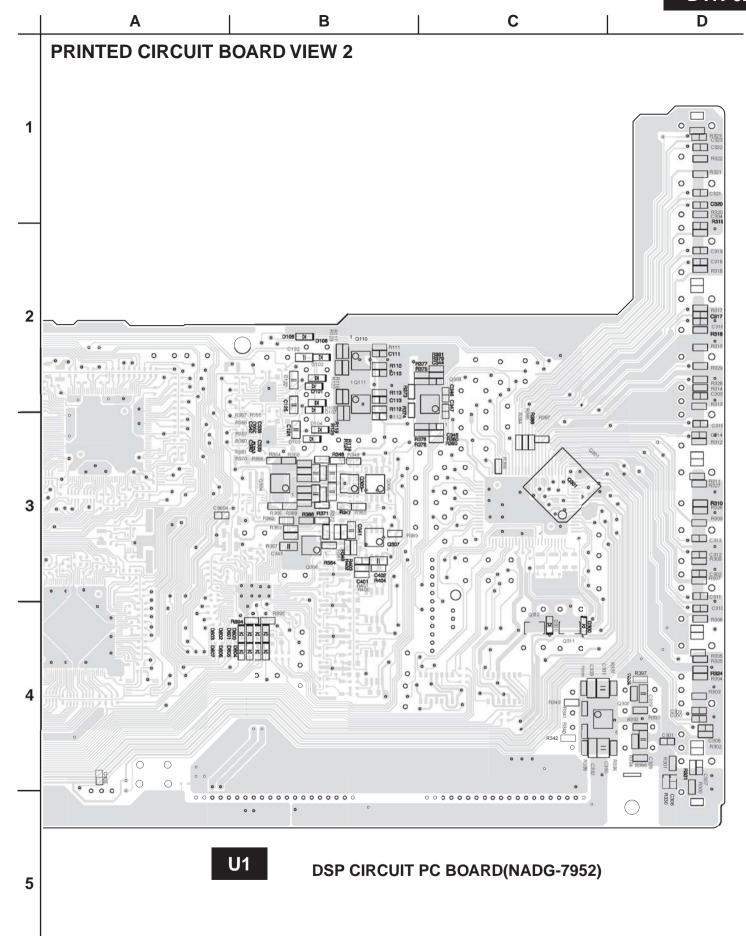
1

5



U1





PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 3

1

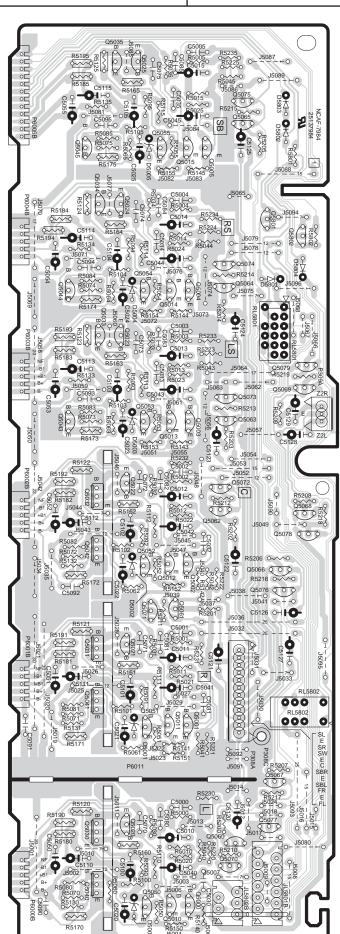
2

3

4

U27

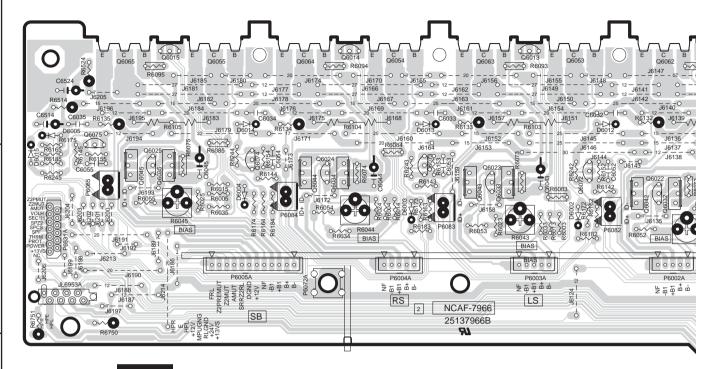
DRIVER CIRCUIT PC BOARD (NAAF-7984)



D

A | B | C |

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 4



U12

POWER AMPLIFIER PC BOARD (NAAF-7966)

3

1

2

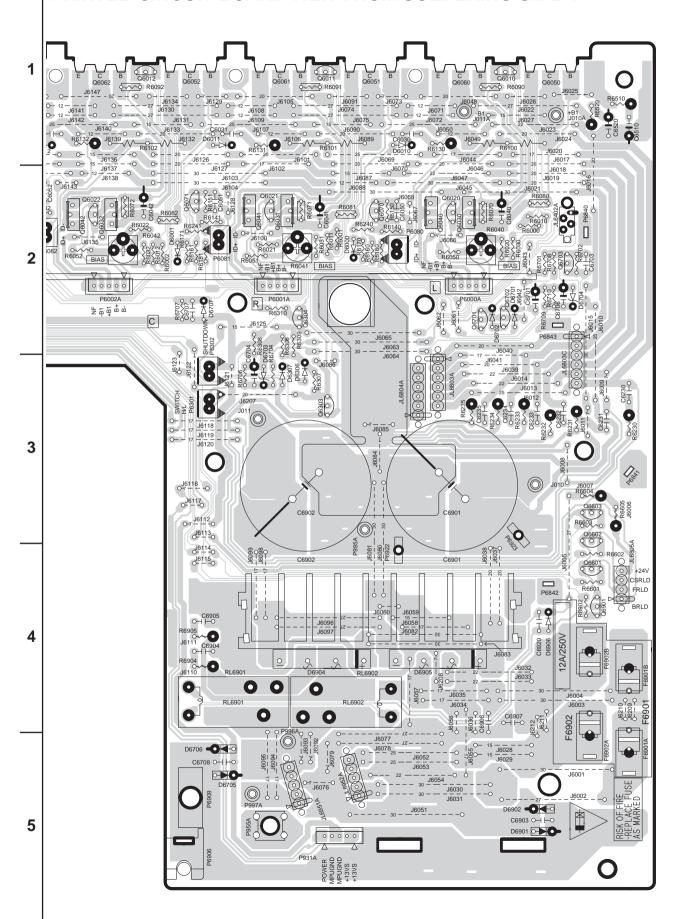
U13



THERMAL DETECTOR PC BOARD (NAETC-7967)

5

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 4



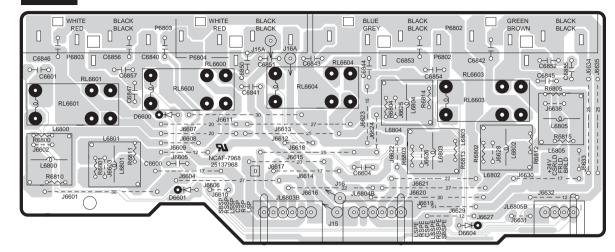
PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 5

U14

1

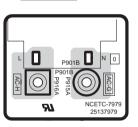
2

3



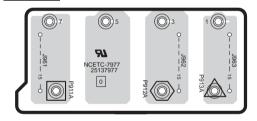
SPEAKER TERMINAL PC BOARD (NAAF-7968)

U30



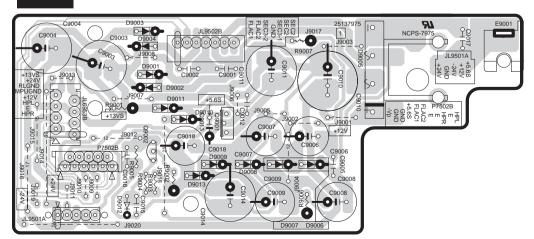
AC INLET TERMINAL PC BOARD (NAETC-7979)

U23



PRIMARY TERMINAL PC BOARD (NAETC-7977)

U22



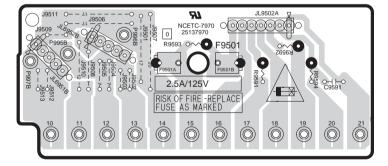
CONSTANT VOLTAGE CIRCUIT PC BOARD (NAPS-7975)

PRIMARY CIRCUIT PC BOARD (NAPS-7974)

3

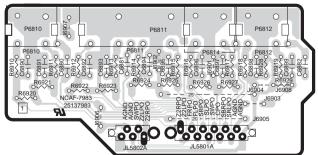
4

5



SECONDARY TERMINAL PC BOARD (NAETC-7970)

U26



PRE OUTPUT TERMINAL PC BOARD (NAAF-7983)

NCVD-7988 25137988B

PRINTED CIRCUIT BOARD 6-1 (U.S.A. model)

1

2

U2

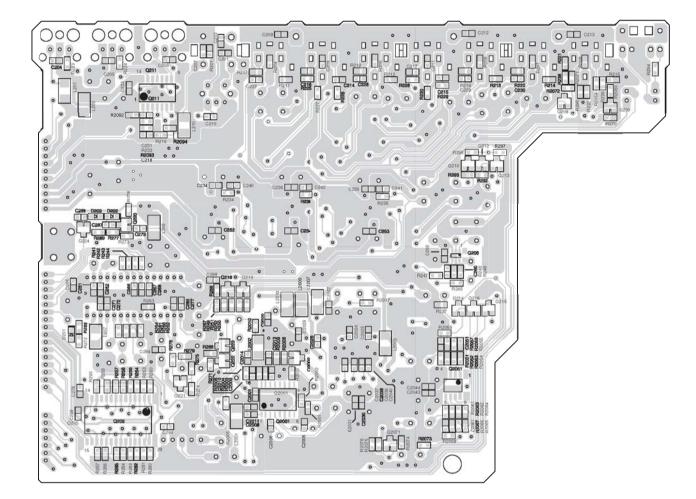
VIDEO CIRCUIT PC BOARD (NAVD-7988)

4

3

PRINTED CIRCUIT BOARD VIEW 6-1 (U.S.A. model)

1



3

2

4

U2

VIDEO CIRCUIT PC BOARD (NAVD-7988)

PRINTED CIRCUIT BOARD 6-1 (U.S.A. model)

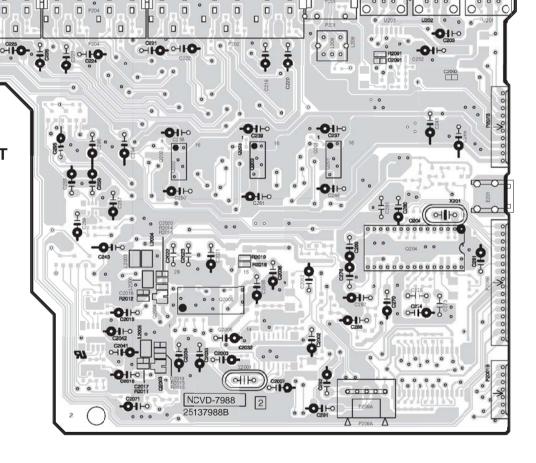
1

2

3

U2

VIDEO CIRCUIT PC BOARD (NAVD-7988)



R294

A | B | C | D

0 - 0

6214 C228 B212

PRINTED CIRCUIT BOARD 6-1 (U.S.A. model)

1

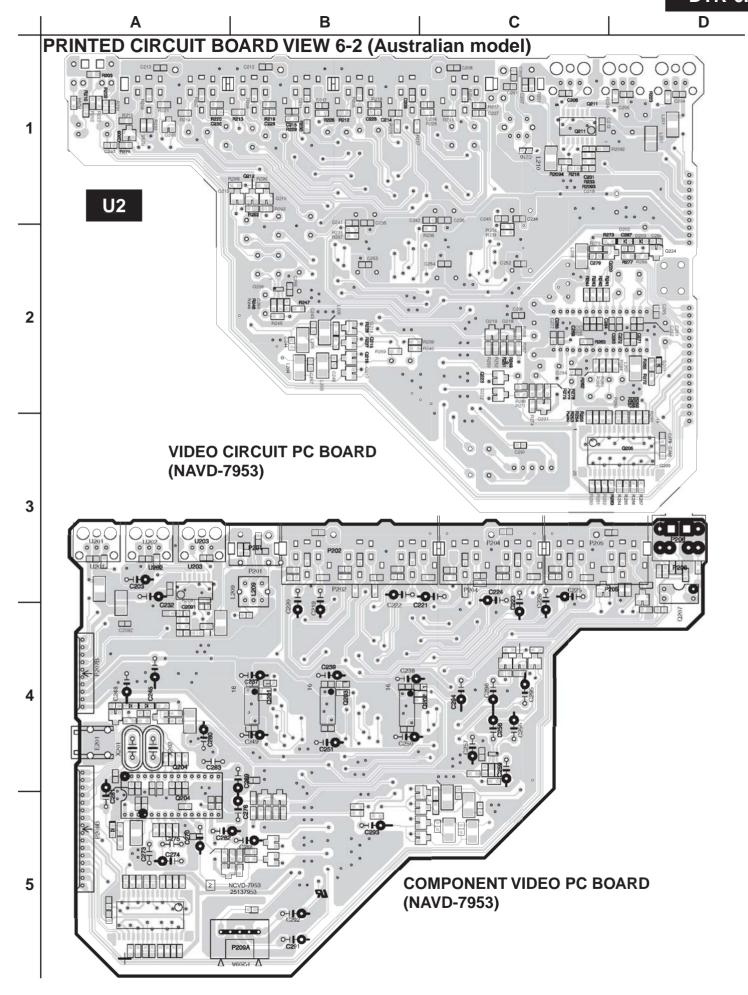
2

3

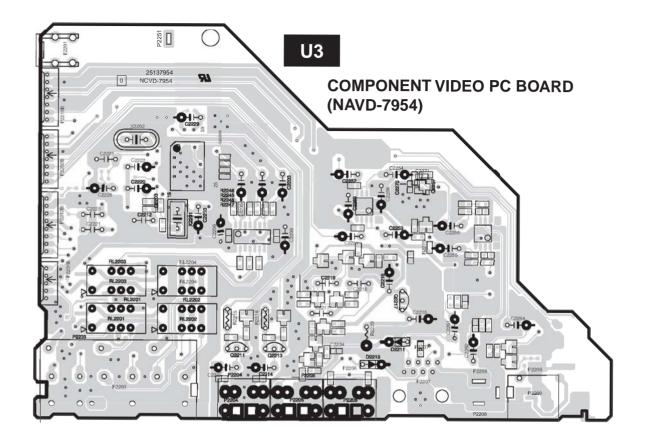
4

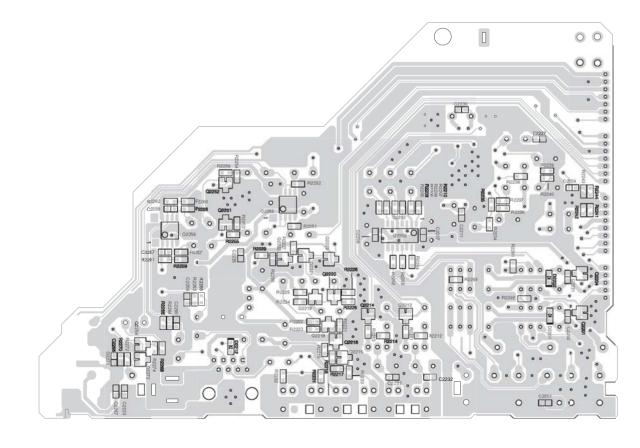
U2
VIDEO CIRCUIT PC BOARD

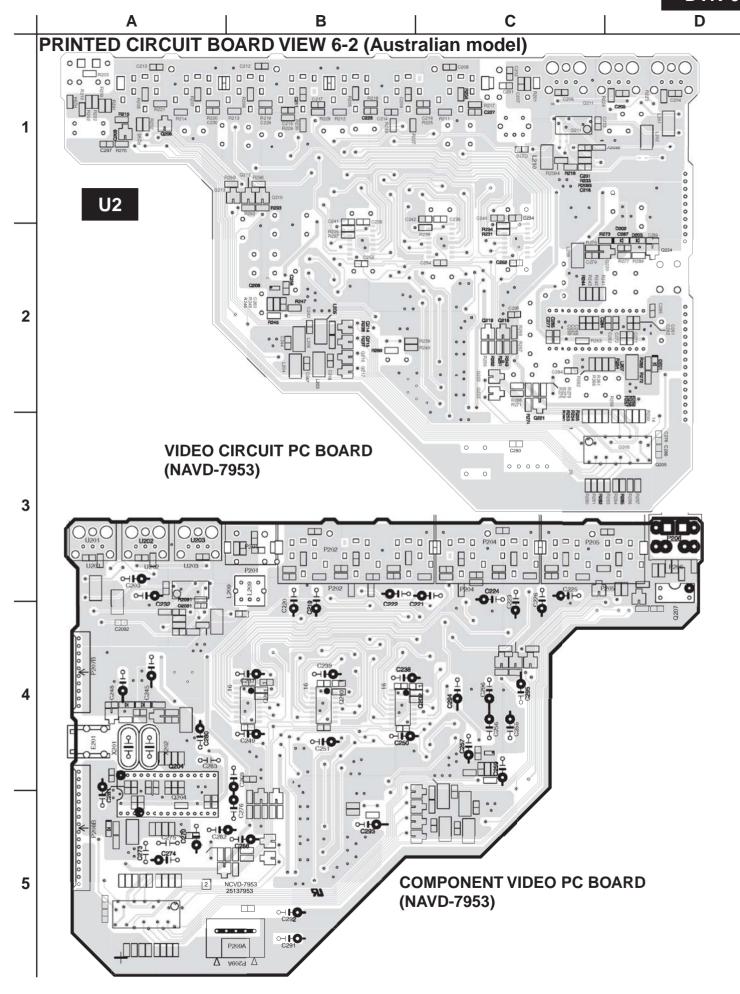
(NAVD-7988)



PRINTED CIRCUIT BOARD VIEW 7





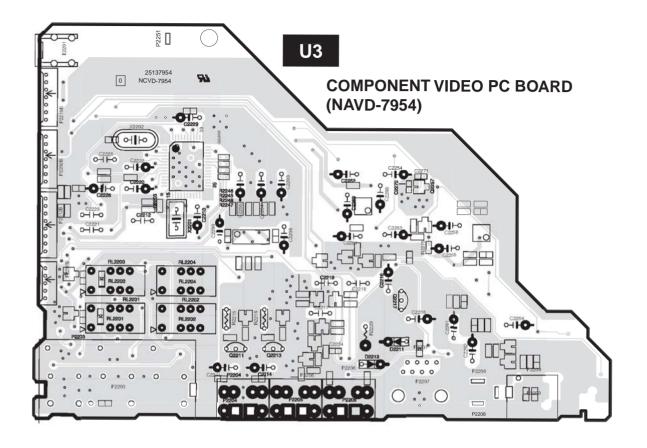


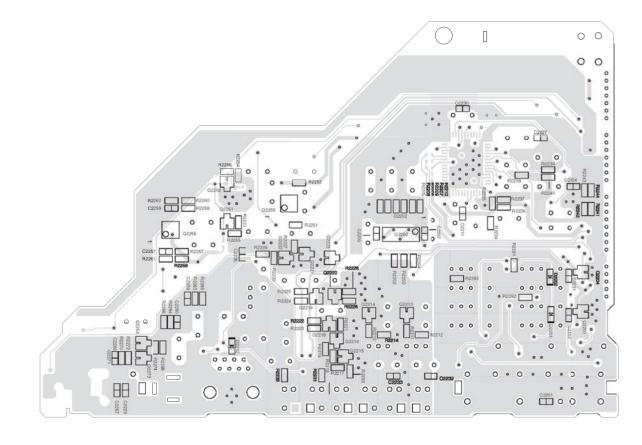
PRINTED CIRCUIT BOARD VIEW 7

1

2

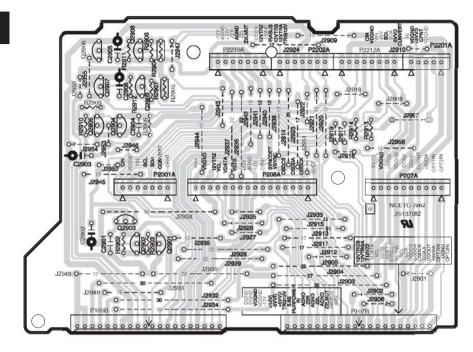
3





PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 8

U25



MAIN CONNECTOR PC BOARD (NAETC-7982)

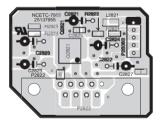
3

4

2

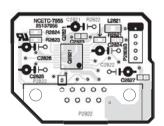
1

U31



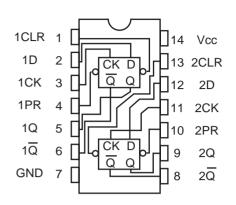
RS232 TERMINAL PC BOARD (NAETC-7955)

U31



RS232 TERMINAL PC BOARD (NAETC-7955)

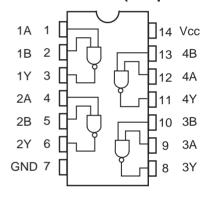
TC74VHC74FT(Dual D-FF with preset and clear)



II.	NPUTS			OUTPUTS		FUNCTION
CLR	PR	D	СК	Q	Q	
L	Η	Х	Х	L	Н	CLEAR
Н	L	Х	Х	Н	L	PRESET
L	┙	Х	Х	Н	Н	
Н	Н	L	f	L	Н	
Н	Н	Н	ſ	Н	L	
Н	Н	Х	Ţ	Qn	Qn	NO CHANGE

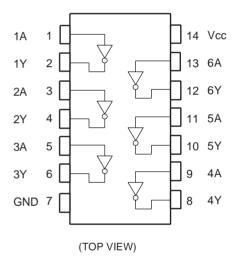
X: Don't care

TC74VHCT00AFT(2-input NAND gate)



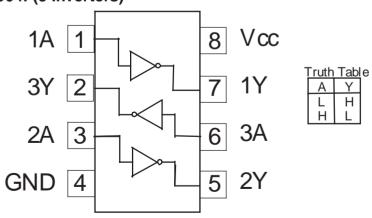
Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

74HC04F/TC74VHCU04FT(Hex Inverters)

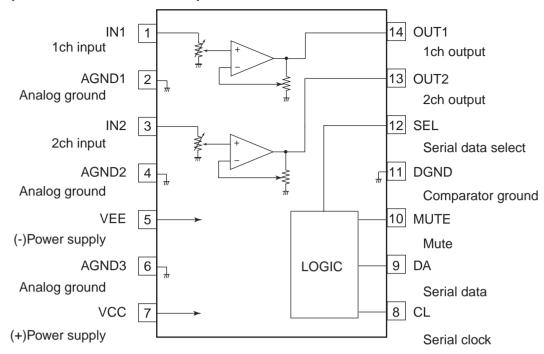


A Y
L H
H L

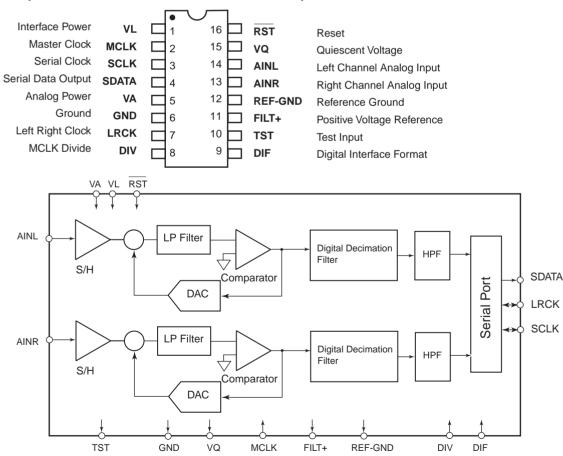
TC7WU04F(3 Inverters)



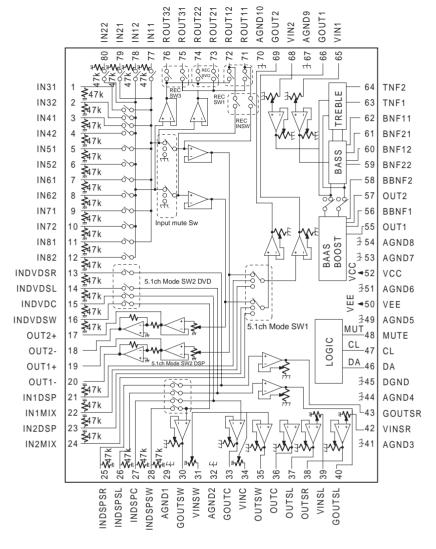
BD3812F(Audio Sound Processor)



CS5333(24-Bit, 96 kHz Stereo A/D Converter)



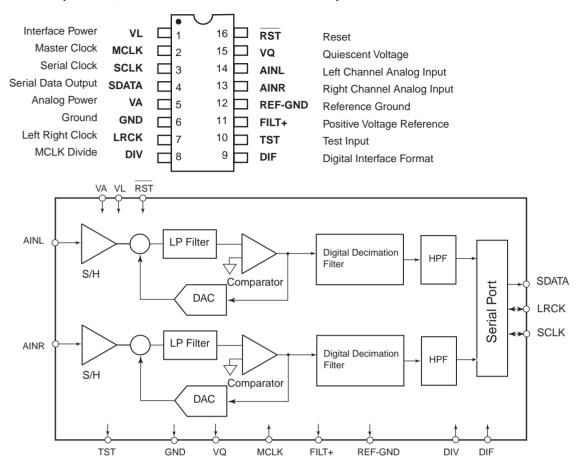
BD3811K1(6ch Volume with 8ch input selector)



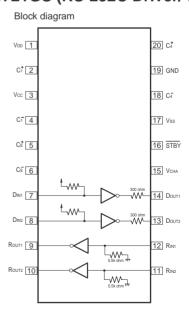
No.	Terminal	Description
1	IN31	1ch input terminal 3
2	IN32	2ch input terminal 3
3	IN41	1ch input terminal 4
4	IN42	2ch input terminal 4
5	IN51	1ch input terminal 5
6	IN52	2ch input terminal 5
7	IN61	1ch input terminal 6
8	IN62	2ch input terminal 6
9	IN71	1ch input terminal 7
10	IN72	2ch input terminal 7
11	IN81	1ch input terminal 8
12	IN82	2ch input terminal 8
13	INDVDSR	DVD surround Rch input terminal
14	INDVDSL	DVD surround Lch input terminal
15	INDVDC	DVD center input terminal
16	INDVDSW	DVD sub woofer input terminal
17	OUT2(+)	2ch (+) A/D output terminal
18	OUT2(-)	2ch (-) A/D output terminal
19	OUT1(+)	1ch (+) A/D output terminal
20	OUT1(-)	1ch (-) A/D output terminal
21	IN1DSP	1ch DSP input terminal
22	IN1MIX	1ch DSP MIX input terminal
23	IN2DSP	2ch DSP input terminal
24	IN2MIX	2ch DSP MIX input terminal
25	INDSPSR	DSP surround Rch input terminal
-		

No. 26 27 28 29 30 31 32 33	Terminal INDSPSL INDSPC INDSPSW AGND1 GOUTSW VINSW AGND2 GOUTC	Description DSP surround Lch input terminal DSP center input terminal DSP sub woofer input terminal Analog ground terminal Sub woofer input gain output terminal Sub woofer volume input terminal Analog ground terminal Center input gain out put terminal
34 35 36 37 38 39 40	VINC OUTSW OUTC OUTSL OUTSR VINSL GOUTSL	Center volume input terminal Sub woofer output terminal Center output terminal Surround Lch output terminal Surround Rch output terminal Surround Lch volume input terminal Surround Lch input gain output terminal
41 42 43 44 45 46	AGND3 VINSR GOUTSR AGND4 DGND DA	Analog ground terminal Surround Rch volume input terminal Surround Rch input gain output terminal Analog ground terminal Ground terminal for comparator Serial data and latch input terminal
47 48 49 50 51	CL MUTE AGND5 VEE AGND6	Serial clock input terminal Mute terminal Analog ground terminal (-) Power supply terminal Analog ground terminal
52 53 54 55 56 57	VCC AGND7 AGND8 OUT1 BBNF1 OUT2	(+) Power supply terminal Analog ground terminal Analog ground terminal 1ch output terminal 1ch bass boost filter terminal 2ch output terminal
58 59 60 61 62 63	BBNF2 BNF22 BNF12 BNF21 BNF11 TNF1	2ch bass boost filter terminal 2 2ch bass filter terminal 2 2ch bass filter terminal 1 1ch bass filter terminal 2 1ch bass filter terminal 1 1ch treble filter terminal 1
64 65 66 67 68 69	TNF2 VIN1 GOUT1 AGND9 VIN2 GOUT2	2ch treble filter terminal 1 1ch(Lch) volume input terminal 1ch(Lch) input gain output terminal Analog ground terminal 2ch(Rch) volume input terminal 2ch(Rch) input gain output terminal
70 71 72 73 74 75 76	AGND10 ROUT11 ROUT12 ROUT21 ROUT22 ROUT31 ROUT32	Analog ground terminal 1ch recording input/output terminal 1 2ch recording input/output terminal 1 1ch recording output terminal 2 2ch recording output terminal 2 1ch recording output terminal 3 2ch recording output terminal 3
77 78 79 80	IN11 IN12 IN21 IN22	1ch input terminal 1 2ch input terminal 1 1ch input terminal 2 2ch input terminal 2

CS5333(24-Bit, 96 kHz Stereo A/D Converter)



uPD4721GS (RS-232C Driver/ Receiver)



Truth table

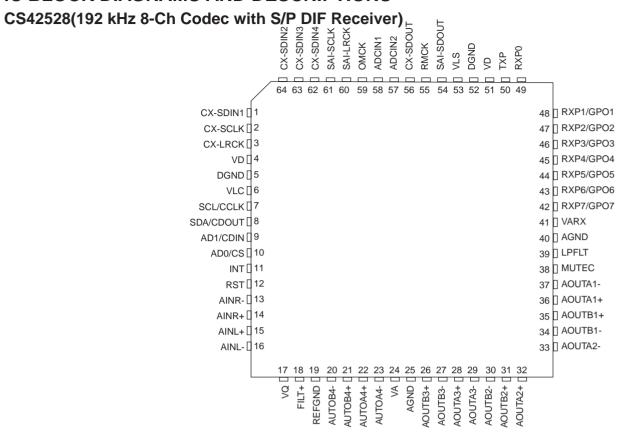
Driver						
STBY	DIN	Dout	Remarks			
L	Х	Z	Standby mode (DC/DC converter is stopped)			
Н	L	Н	Space level output			
Н	Н	L	Mark level output			
	STBY L H	STBY DIN L X H L	STBY DIN Dout L X Z H L H			

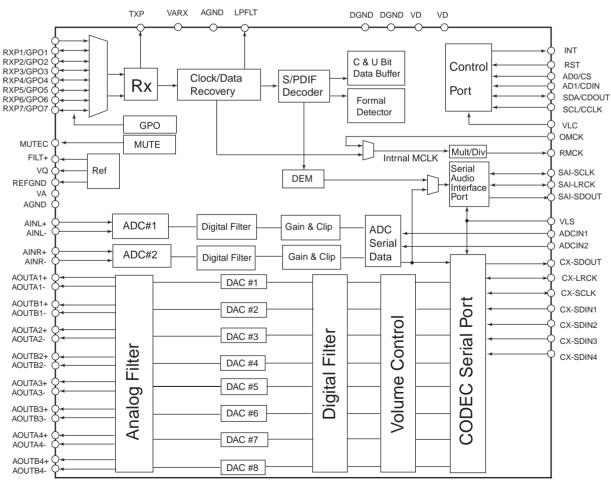
Receiver

STBY	Rın	Rouт	Remarks
L	Х	Н	Standby mode (DC/DC converter is stopped)
Н	L	Н	Space level input
Н	Н	L	Space level input

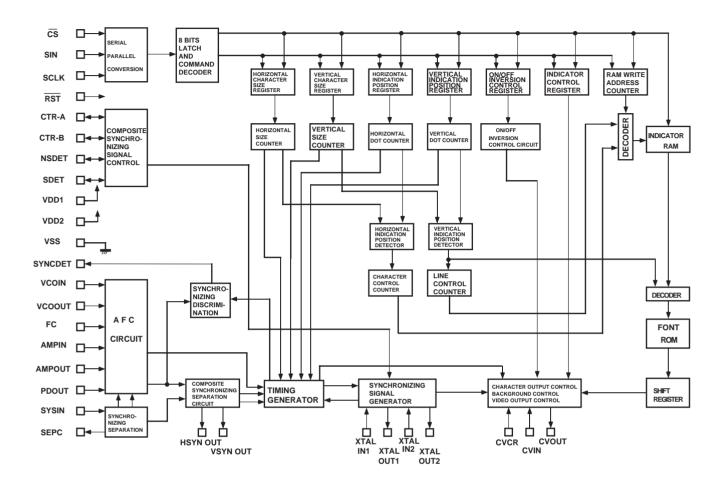
3 V/5 V switching

	VCHA	Operating mode		
L 5V		5 V mode (double step-up)		
	Н	3 V mode (3 times step-up)		



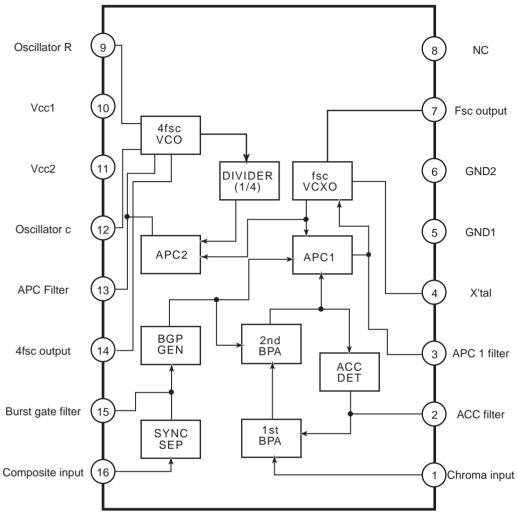


LC74763-9836(On-screen and controller)

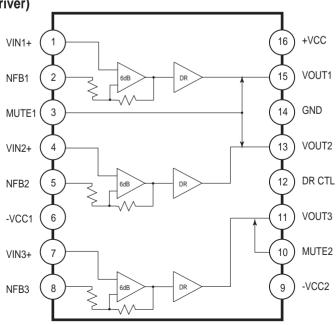


No.	Symbol	Description	No.	Symbol	Description
1	VSS	Ground terminal	16	CVOUT	Composite video output terminal
2	XTALIN1	Crystal oscillator connection terminals for	17	VDD2	Power supply terminal for composite video signal
3	XTALOUT1	internal synchronizing signal generator	18	CVIN	Composite video signal input terminal
4	HSYNCOUT	Horizontal synchronizing signal output terminal	19	CVCR	Cromatic signal input terminal
5	XTALIN2	Crystal oscillator connection terminals for.	20	SYNCIN	Video signal input terminal for internal synchronizing separation circuit
6	XTALOUT2	internal synchronizing signal generator	21	SEPC	Bias output pin for internal synchronizing separation circuit
7	VSYNCOUT	Vertical synchronizing signal output terminal	22	VSS	Ground terminal
8	cs	Chip enable input terminal	23	PDOUT	Power supply output terminal for AFC circuit
9	SIN	Serial data input terminal	24	AMPIN	Filter connection terminals
10	SCLK	Clock input terminal for serial data	25	AMPOUT	
11	CTR-A	Video control output terminal	26	FC	Power supply output terminal
12	CTR-B	Video control output terminal	27	VCOIN	LC resonator connection terminals for VCO
13	NSDET	Selection pin for PAL or NTSC	28	VCOOUT	
14	SDET	Signal detection terminal	29	SYNCDET	External synchronizing signal discrimination output terminal
15	RST	System reset input terminal	30	VDD1	Power supply terminal

MM1093(4fsc Clock Generator)

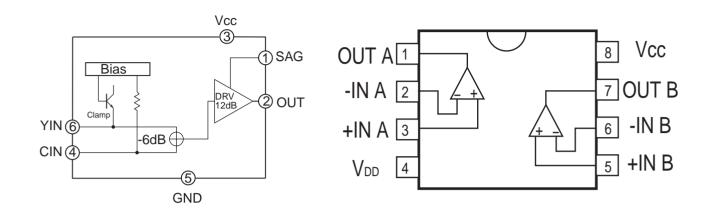


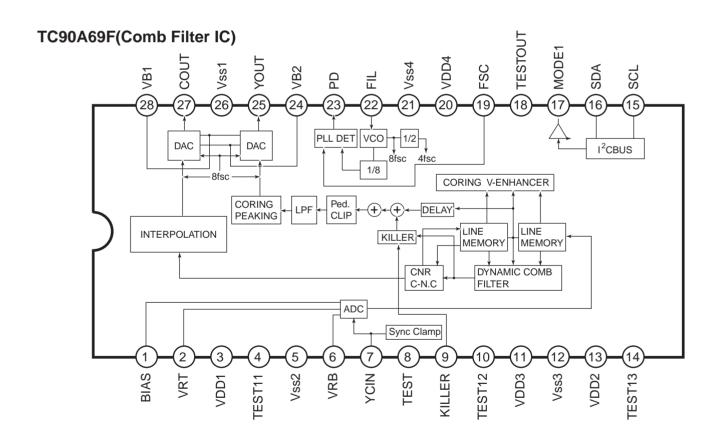
LA7106MFP(75 ohm video driver)

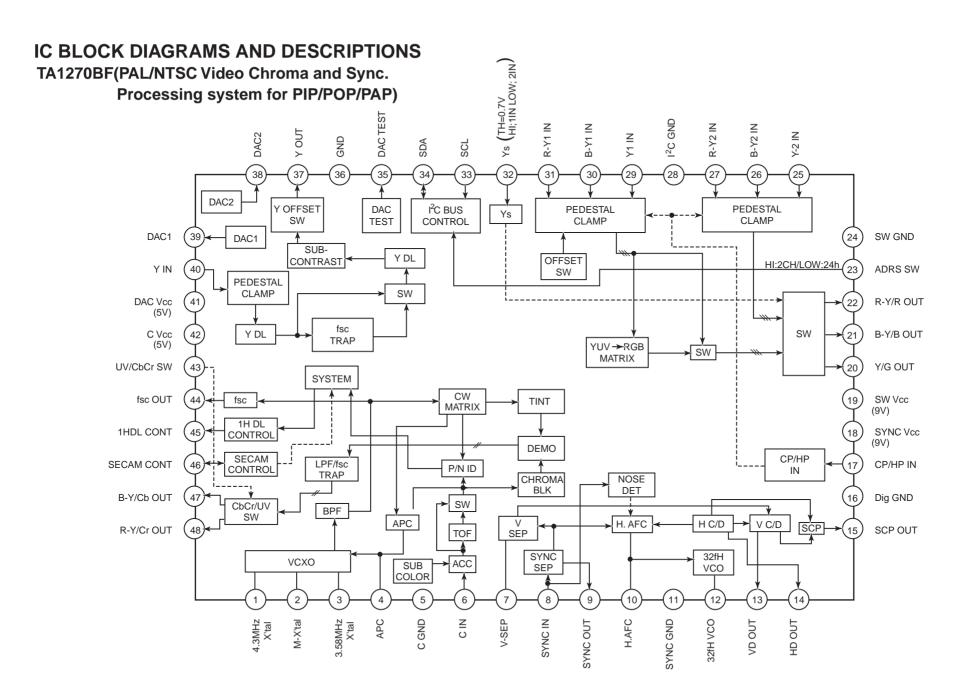


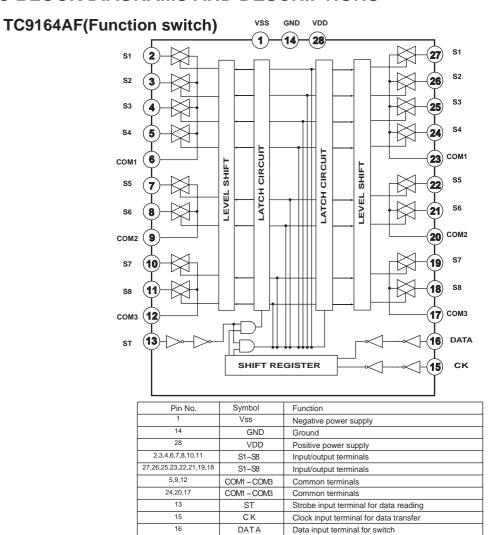
MM1512(Y-C mixer circuit)

TK15420(Operation amplifier)

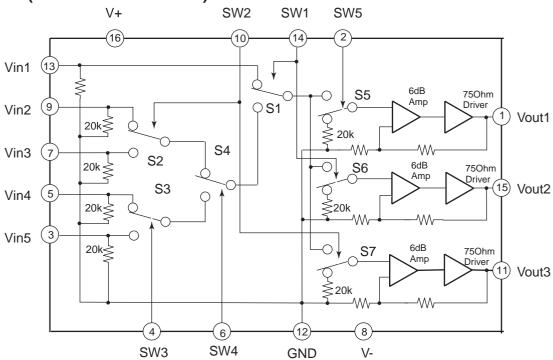




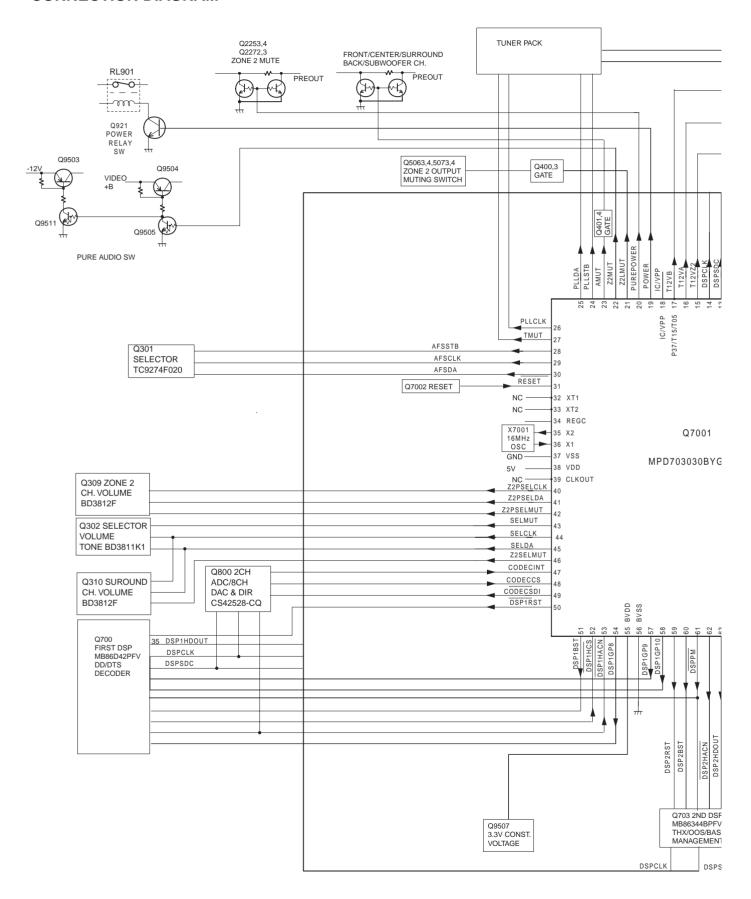




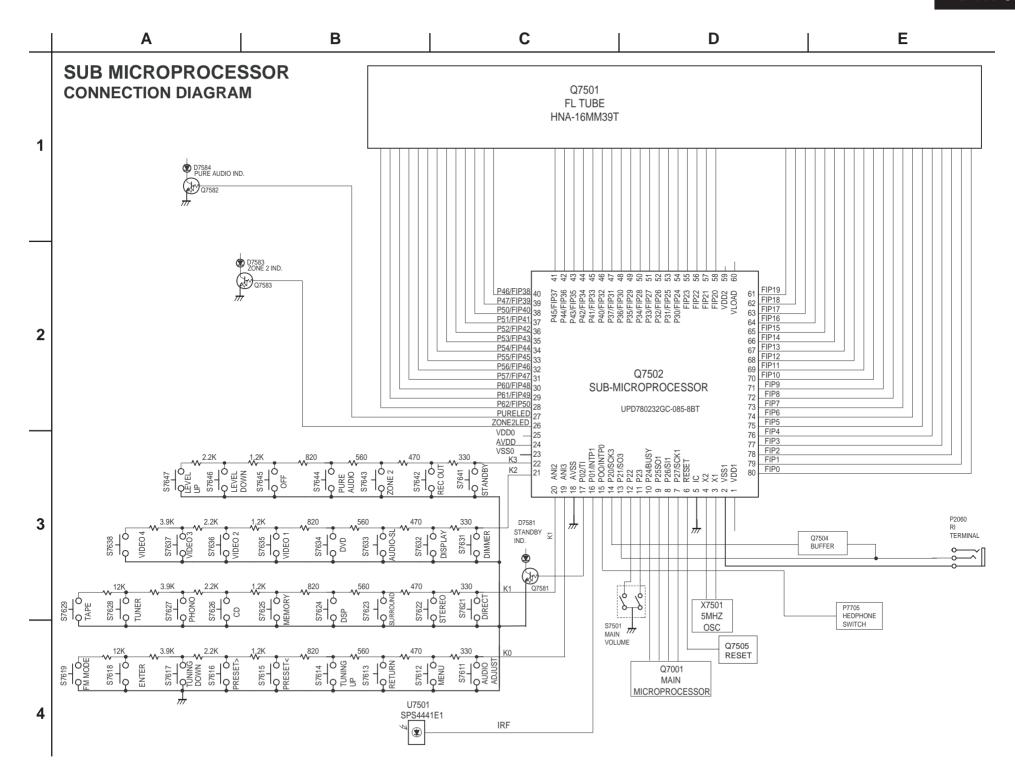
NJM2595M(Video Selector Switch)



MAIN MICROPROCESSOR CONNECTION DIAGRAM



MAIN MICROPROCESSOR Q5068,9 05078.9 ZONE 2 MUTE **CONNECTION DIAGRAM** PREOUT 12V TRIGGER Q205 Q2203 VIDEO CONTROL 12\/ PAL/NTSC Q2005 TRIGGER TWO INPUT COM FILTER SWITCH ONE OUTPUT TC90A69F TC9164AF YUV SWITCH 12V TRIGGER **%** LC74763 ZONE 2 DATA 5 Q204 ON SCREEN VIDEO SELECTOR DEMODULATOR DSPSDC DSP1HDOUT SWITCH GND 5V BA7625 DSPCLK ZZMUT Q6701~3 ABNORMAL VOLTAGE/ CURRENT 16 14 14 11 11 10 DETECTOR EVSS EVDD 100 Q7505 SUBRST aa RESET 232TXD 98 232RXD 97 SUBCLK 96 RL6901,RL6902 Q7502 SUB MICROPROCESSOR SUBSDO 95 00 SUBSDI UPD780233GC-068-8BT SUBRDY 93 M -SEC1H 92 Q6901 POWER AMP IRZ2 Q7001 IRIN +B SW 90 RDSCLK 89 POWER)3030BYGC-J03-8EU POFF FAILURE VSYNC 87 DET. SYNC 86 RDSID 85 RDSDA 84 SDET 83 THRM P80/ANI8 82 PTOTECT 81 INIT4 DEMODULATOR 80 INT3 INITIALIZING 79 INT2 78 INTERFACE INT1 INITIALIZING P57/AD15 P64/A20 STEREO AVDD AVSS AVREF R6381,Q6304 THERMAL DET. CIRCUIT 69 72 73 VOLH GND +5V +5V RL7701 00 OUTPUT m THERMO. VOLTAGE DET. Q7701 HP RELAY SW DSP2HDOUT DSP2HACN DSP2BST RL5801 RL5802 RL6603,4 RL6601 RL6600 00 00 00 00 00 M M mmm-703 2ND DSF Q113,4 ADC CS5333 B86344BPFV Q5802 L Q6601 Q6603 05801 06602 HX/OOS/BASS FRONT SP CENTER/SB/ ZONE2 SP ZONE2 RELAY SR SP RELAY ANAGEMENT SW RELAY SW SW RELAY DSPSDC



MAIN MICROPROCESSOR

TERMINAL DESCRIPTION

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Symbol HPRL YCSEPCLK OSDCS OSDDA OSDCLK Evdd Evss VFSDA VFSCLK VFSSTB Z2PMUT DSP1HDOUT DSPSDO DSPCLK T12VZ2 T12VA T12VB IC/Vpp POWER PUREPOW Z2LMUT Z2MUT AMUT PLLSTB PLLDA PLLCLK TMUT AFSSTB AFSSCK AFSDA ~RESET XT1 XT2 REGC X2 X1 Vss Vdd CLKOUT Z2PSELCLK	00000 0000-00000 00000000000-	Line output muting control output pin for zone 2 Muting control output pin for zone 2 Audio muting control output pin Serial communication strobe output pin for PLL IC in tuner pack. Serial communication data output pin for PLL IC. Serial communication clock output pin for PLL IC. Muting control output pin for tuner pack. Serial communication strobe output pin for select switch IC Q301. Serial communication clock output pin for select switch IC Q301. Serial communication data output pin for select switch IC Q301. System reset input Not used. Not used. Regulator adjustment capacitor connection pin Main clock connection pin (16MHz) Main clock connection pin (16MHz) Ground pin Power supply pin (5V). Not used.
36 37	X1 Vss		Main clock connection pin (16MHz) Ground pin
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

MAIN MICROPROCESSOR TERMINAL DESCRIPTION

No.	Symbol	I/O	Description
51	DSP1BST	O	Boot strap output pin for first DSP IC.
52	~DSP1HCS	Ö	Serial communication clock output pin for Q302 and Q310.
53	~DSP1HACN	Ĭ	Acknowledge input pin for first DSP IC.
54	DSP1GP8	Ö	PCM information output pin for first DSP IC.
55	BVdd	Ü	Power supply pin (3.3V)
56	BVss		Ground pin
57	DSP1GP9	1	Information input pin to read bit stream information of first DSP IC.
58	GSP1GP10	i	Interrupter request input pin for first DSP IC
59			Reset signal output pin for second DSP IC Q703.
	~DSP2RST	0	
60	DSP2BST		Boot strap output pin for second DSP IC.
61 62	~CODECRST/~DSPPM ~DSP2HACN	0	Reset output pin for DIR IC and initializing of PLL of DSP IC
63	DSP2HDOUT	l I	Acknowledge input pin for second DSP IC. Serial communication data input pin for second DSP IC
64			
	~DSP2HCS	0	Serial communication clock output pin for second DSP IC
65 66	~ADPD	0	Power down output pin for AD converter Q113,4.
66 67	ADCDIV	0	Dividing control output pin for AD converter
67	VppEN	0	Self-write power supply control pin
68	SPZ2	0	Speaker relay control output pin for zone 2
69	SPCS	0	Speaker relay control output pin for center and surround channels
70	SPF	0	Speaker relay control output pin for front channels
71	Avdd		Power supply pin (5V)
72	Avss		Ground pin
73	Avref		Reference voltage pin for A/D converter
74	VOLH	!	Output voltage detection input pin of power amplifier
75	~SD	I	Broadcast detection input pin
76	~STEREO	I	Stereo broadcast detection input pin
77	INIT1	ı	Initializing pin
78	INIT2	I	Initializing pin
79	INIT3	I	Initializing pin
80	INIT4	I	Initializing pin
81	PROTECT	I	Abnormal current and voltage detection input pin
82	THRM	I	Thermal detection input pin
83	SDET	I	S video detection input pin
84	RDSDA	- 1	Data input pin from RDS decoder
85	RDSID	- 1	Signal input pin from RDS decoder
86	SYNC	- 1	External synchronizing judgment input pin from OSD IC
87	~VSYNC	1	Vertical synchronizing signal input pin
88	~POFF	1	Power failure detection input pin
89	~RDSCLK	1	Clock input pin from RDS decoder
90	~IRIN	1	IR signal input pin
91	~IRZ2	1	IR signal input pin for zone 2
92	SEC1H	0	Power supply control output pin for power amplifier
93	SUBRDY	1	Ready input pin for sub-microprocessor
94	SUBSDI	1	Serial communication data input pin for sub-microprocessor
95	SUBSDO	Ö	Serial communication data output pin for sub-microprocessor
96	SUBCLK	Ö	Serial communication clock output pin for sub-microprocessor
97	232RXD	Ĭ	Not used.
98	232TXD	Ö	Not used.
99	~SUBRST	Ö	Reset output pin for sub-microprocessor
100	YCSEPDA	Ö	Not used.
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TERMINAL DESCRIPTION

SUB MICROPROCESSOR

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	VDD		Power supply terminal. Connect to 5V.	41	P22	0	Segment output terminal of P22.
2	VSS		Ground terminal.	42	P21	0	Segment output terminal of P21.
3	X1		Ceramic oscillator connection terminals for main system.	43	P20	0	Segment output terminal of P20.
4	X2		Connect the 5MHz ceramic oscillator between #3 and #4.	44	P19	0	Segment output terminal of P19.
5	IC/VPP		Internal connection terminal	45	P18	0	Segment output terminal of P18.
6	~RESET		System reset signal input terminal.	46	P17	0	Segment output terminal of P17.
7	SUBCL/SCK	ı	Clock input terminal to transmit the signal from main microprocessor.	47	P16	0	Segment output terminal of P16.
8	SUBDO/SDI	ı	Data input terminal to transmit the signal from main microprocessor.	48	P15	0	Segment output terminal of P15.
9	SUBDI/SDD	0	Data output terminal to transmit the signal to main microprocessor.	49	P14	0	Segment output terminal of P14.
10	SUBLDY	0	Data ready output terminal to transmit to the main microprocessor.	50	P13	0	Segment output terminal of P13.
11	VBJ	1	Pulse input terminal from the rotary encoder of volume.	51	P12	0	Segment output terminal of P12.
12	VAJ	ı	Pulse input terminal from the rotary encoder of volume.	52	P11	0	Segment output terminal of P11.
13	SYSIN	I	System code input terminal.	53	P10	0	Segment output terminal of P10.
14	SYSOUT	L	System code output terminal.	54	P9	0	Segment output terminal of P9.
15	HPDET	L	Detection terminal of headphone insertion.	55	P8	0	Segment output terminal of P8.
16	~IRIN	1	Signal input terminal from the remote controller.	56	P7	0	Segment output terminal of P7.
17	STBYLED	0	Standby LED control output terminal.	57	P6	0	Segment output terminal of P6.
18	AVSS		Ground terminal for A/D converter.	58	P5	0	Segment output terminal of P5.
19	K0	- 1	Operation key connection terminal.	59	VDD2		Power supply terminal. Apply +5V.
20	K1	- 1	Operation key connection terminal.	60	VLOAD		Negative power supply terminal of FL controller.
21	K2	ı	Operation key connection terminal.	61	P4	0	Segment output terminal of P4.
22	K3	- 1	Operation key connection terminal.	62	P3	0	Segment output terminal of P3.
23	VSS0		Ground terminal	63	P2	0	Segment output terminal of P2.
24	AVDD		Power supply terminal for A/D converter.	64	P1	0	Segment output terminal of P1.
25	VDDD		Power supply terminal. Apply +5V.	65	16G	0	Grid output terminal of 16G.
26	ZONE2LED	0	ZONE 2 indicator control output terminal.	66	15G	0	Grid output terminal of 15G.
27	PURELED	0	PURE AUDIO indicator control output terminal	67	14G	0	Grid output terminal of 14G.
28	P35	0	Segment output terminal of P35.	68	13G	0	Grid output terminal of 13G.
29	P34	0	Segment output terminal of P34.	69	12G	0	Grid output terminal of 12G.
30	P33	0	Segment output terminal of P33.	70	11G	0	Grid output terminal of 11G.
31	P32	0	Segment output terminal of P32.	71	10G	0	Grid output terminal of 10G.
32	P31	0	Segment output terminal of P31.	72	9G	0	Grid output terminal of 9G.
33	P30	0	Segment output terminal of P30.	73	8G	0	Grid output terminal of 8G.
34	P29	0	Segment output terminal of P29.	74	7G	0	Grid output terminal of 7G.
35	P28	0	Segment output terminal of P28.	75	6G	0	Grid output terminal of 6G.
36	P27	0	Segment output terminal of P27.	76	5G	0	Grid output terminal of 5G.
37	P26	0	Segment output terminal of P26.	77	4G	0	Grid output terminal of 4G.
38	P25	0	Segment output terminal of P25.	78	3G	0	Grid output terminal of 3G.
39	P24	0	Segment output terminal of P24.	79	2G	0	Grid output terminal of 2G.
40	P23	0	Segment output terminal of P23.	80	1G	0	Grid output terminal of 1G.

ADJUSTMENT AND CONFIRMATION PROCEDURES 1

Idling current adjustment

Before Idling adjustment, turn the trimming resistors R6040 to R6045 to counter clockwise.

Connect the DC voltmeter to sockets P6080 to P6085.

After turn POWER to ON, adjust the trimming resistors R6040, R6041 and R6042 so that the reading of voltmeter becomes 2.5 mV. (Front and center channels)

Adjust the trimming resistors R6043, R6044 and R6045 so that the reading of

voltmeter becomes 1.5 mV. (Surround and surround back channels)

After adjustment, attach the top cover.

Confirm the voltage of points above after about five minutes.

Front and center channels

When less than 10.0 mV, readjust the resistors above so that the voltage becomes 10.0 mV.

When 10.0 mV to 12.0 mV, you are not necessary to adjust.

When more than 12.0 mV, readjust the resistors above so that the voltage becomes 12.0 mV.

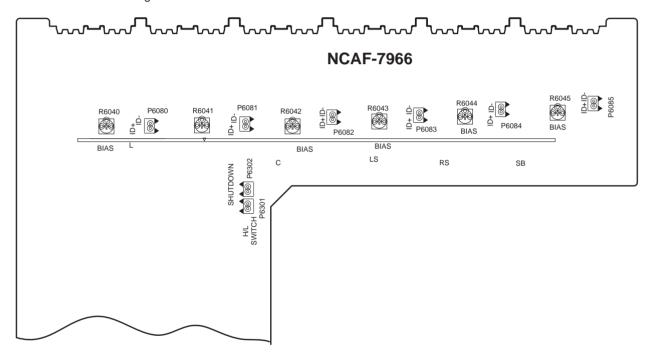
Surround and surround back channels

When less than 7.0 mV, readjust the resistors above so that the voltage becomes 7.0 mV.

When 7.0 mV to 9.0 mV, you are not necessary to adjust.

When more than 9.0 mV, readjust the resistors above so that the voltage becomes 9.0 mV.

Note: No load and No signal



Confirmation of protection circuit

1. Confirmation of operation of speaker relay

Confirm that the speaker relays turn ON approximate. 5 seconds after the power switch is turned ON. Confirm that the speaker relays turn OFF immediately after the power switch is turned OFF.

2. Confirmation of DC detection circuit

Press and hold down CD button, then press STANDBY/ON button to set the unit to "Test-1" mode.

After "Test-1" on the FL tube light on, press VIDEO 1 button to set the unit to "Test-1-00".

Apply DC 1.5 to 3V to DVD INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5 to -3V to DVD INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

After "Test-1" on the FL tube light on, press REC OUT button two times to set the unit to "Test-1-02".

Apply DC 1.5 to 3V to DVD INPUT terminal with no load. Confirm that the speaker relay turns OFF.

Apply DC -1.5 to -3V to DVD INPUT terminal with no load. Confirm that the speaker relay turns OFF.

Caution: Don't apply DC voltage more than 1 sec..

ADJUSTMENT AND CONFIRMATION PROCEDURES 2

3. Confirmation of Current detection circuit

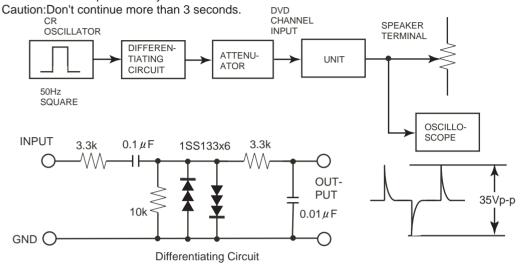
Set the unit to "Test-1-00".

Connect the differentiating circuit and apply the 50Hz square signal to DVD INPUT terminal of each channel.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns off when a 1.5 ohm load is connected.



Set the unit to "Test-1-02".

Connect the differentiating circuit and apply the 50Hz square signal to the center channel of DVD terminal.

Adjust the attenuator or Volume so that the output level of surround back becomes 35V p-p. Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns off when a 1.5 ohm load is connected.

Test Mode

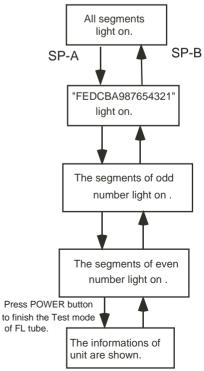
1. Turn POWER button on.

- 2. Press and hold down CD button, then press STANDBY/ON button.
- 3. After "Test-1" on the FL tube is displayed, press CD button to set the unit to the Test mode of FL tube.

Caution:Don't continue more than 3 seconds.

Note: VIDEO 1:Test-1 VIDEO 2:Test-2 REC OUT: UP VIDEO 3:Test-3 VIDEO 4:Test-4 ZONE 2: DOWN

Test mode of FL tube



Confirmation of voltage sensor

- 1. Set the unit to Test-4-35 or Test-4-36.
- Confirm that the FM STEREO is displayed.
 Confirm that the speaker relays of RL6901 and RL6902 turn off
- 3. When connect the resistor 2.7 kohm/1 W between the terminals COM and TH1 of P6301, confirm that "FM STEREO" light on.

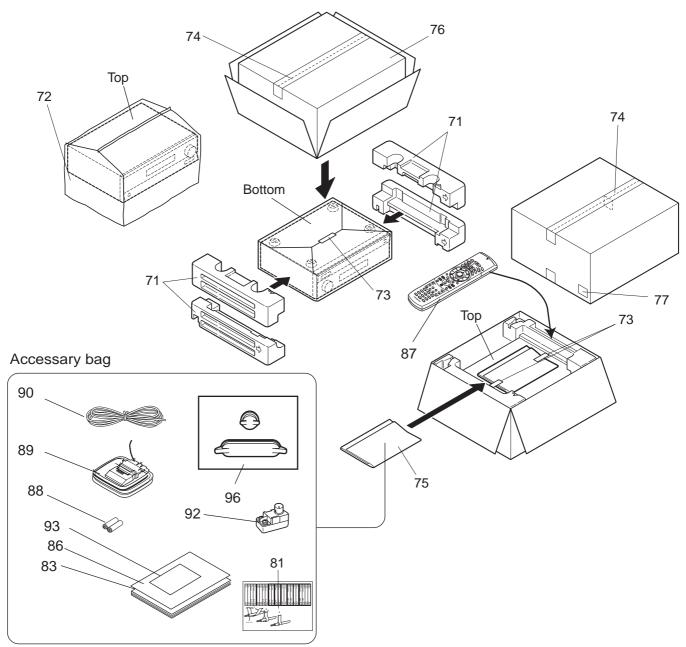
Note: No input signal.

4. When connect the resistor 2.2 kohm/1 W between the terminals of P6302, confirm that

"MEMORY" on FL tube lights on and the protection circuit operates.

Note: No input signal.

PACKING VIEW



Put the label 81 between page 2 and page 3 of instruction manual E.

EXPLUDE	D VIEW-PARTS	S LIS) I
	NOTE: THE COM	/IPONE	NTS IDENTIFIED BY MARK !
	ARE CRI	TICAL	FOR RISK OF FIRE AND
	ELECTR	IC SHO	OCK. REPLACE ONLY WITH
	PART NU	JMBER	R SPECIFIED.
	CAUTION: Repla	cemen	t for transistor of mark *, if necessary
	must b	e mad	e from the same beta group (hFE) as
		ginal ty	
			el only <a>: Australian model only
			T
REF.NO.	PART NO.		DESCRIPTION
1	27111275A		Front bracket
2	27212501		Front panel
3	28198905		Facet
4	838130088		3TTB+8B,Self-tapping screw
5	28135278		Badge
6	838430088		3TTB+8B(BC),Self-tapping screw
7	28326016		Knob, volume
8	27123110A		Rear panel <d></d>
8			
9	27123111A		Rear panel <a>
	28325756		Knob, standby
13	838930088		3TTB+8B(UN),Self-tapping screw
14	27141787		Retainer, headphone
15	27141881		Retainer RT
16	28191961A		Clear plate
17	28133402		Back plate
18	87643010		W3*10F(BC),Flat washer
19	29110083		Cloth tape
21	27100418B		Chassis
22	27190693A		KGLS-6RT,Holder
23	27190266		KGLS-12RT,Holder
24	27190657		KGLS-18RT,Holder
25	838440089		4TTB+8C(BC),Self-tapping screw
31	27160530-1		Heat sink
32	801606		3SMH10W.SW+15B(CU),Special screw
33	830440089		4TTC+8C(BC),Self-tapping screw
36	838430068		3TTB+6B(BC), Self-tapping screw
38	29363409-1		Label, transformer
41	28184835		Top cover
42	838430088		3TTB+8B(BC),Self-tapping screw
46	27175319B		Leg
47	28141494		Cushion
51	260208		Wire tie
52	223025		AC262,Isolated sheet
53	29363195		Label
	20000100	1	12A-UL/T-314 or
	252196 or		11/4-11/1-314()
F6901,F6902	252196 or !	! 	
	252301 !	! 	12A-TUL-250V, Fuse <d></d>
	252301 ! 252100 or !	<u> </u>	12A-TUL-250V, Fuse <d> 10A-EAK or</d>
F6901,F6902	252301 ! 252100 or ! 252307 !		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a></d>
F901	252301 ! 252100 or ! 252307 ! 252199 !		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d></d></d>
F6901,F6902	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK,</d></d>
F6901,F6902 F901	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or</d></d>
F901 F902	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a></d></d>
F901	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK,</d></d>
F901 F902	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK, 2.5A-SE-TL250V or</d></d>
F901 F902	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK, 2.5A-SE-TL250V or 2.5A-SE-TL250V or</d></d>
F901 F902	252301 252100 or 252307 252199 252078, 252244 or 252278 252075, 252241 or 252275 252164 or 1		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK, 2.5A-SE-TL250V or 2.5A-SE-TL250V or</d></d>
F901 F902	252301		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK, 2.5A-SE-TL250V or 2.5A-SE-TL250V or</d></d>
F901 F902	252301 252100 or 252307 252199 252078, 252244 or 252278 252075, 252241 or 252275 252164 or 1		12A-TUL-250V, Fuse <d> 10A-EAK or 10A-TL250V, Fuse <a> 10A-UL, Fuse <d> 5A-SE-EAK, 5A-SE-TL250V or 5A-SE-TL250V, Fuse <a> 2.5A-SE-EAK, 2.5A-SE-TL250V or 2.5A-SE-TL250V or</d></d>

REF.NO.	PART NO.		DESCRIPTION
F9501	252160 or	!	2.5A-UL/T-237 or
	252254	!	2.5A-T/UL-ST2,Fuse <d></d>
	252075,	!	2.5A-SE-EAK,
	252241 or	!	2.5A-SE-TL250V or
	252275	!	2.5A-SE-TL250V, Fuse <a>
P101	2047152522		NCFC7-152522,Flexible cable
P6931	2045133012		NCFC5-133012,Flexible cable
P7501	2045081512		NCFC5-081512,Flexible cable
P7502	2047111512		NCFC7-111512,Flexible cable
P901	253297KAW or	!	AS-UC-2 or
	253352TES	!	AS-UC-2,Power supply cord <d></d>
	253311VOL	!	AS-SAA, Power supply cord <a>
Q6050~Q6052	2202823 or	*	2SC5200-O or
	2202822	*	2SC5200-R, Transistor
Q6053~Q6055	2203683,	*	MN150S-O,
	2203684,	*	MN150S-Y,
	2203686,	*	MN150S-P,
	2202823 or	*	2SC5200-O or
	2202822	*	2SC5200-R, Transistor
Q6060~Q6062	2202813 or	*	2SA1943-O or
<u> </u>	2202812	*	2SA1943-R,Transistor
Q6063~Q6065	2203693,	*	MP150S-O,
40000 40000	2203694,	*	MP150S-Y,
	2203696,	*	MP150S-P,
	2202813 or	*	2SA1943-O or
	2202812	*	2SA1943-R,Transistor
T901	2301696	1	NPT-1470D,Power transformer <d></d>
1301	2301697	1	NPT-1470D, ower transformer <a>
U1	1A972552-2B		NADG-7952-2B,DSP circuit PC board ass'y <d></d>
01	1A972552-2C		NADG-7952-2C,DSP circuit PC board ass'y <a>
U2	1A972588-1B		NAVD-7988-1B, Video circuit PC board ass'y <d></d>
02	1A972553-2C		NAVD-7953-2C, Video circuit PC board ass'y <a>
U3	1A972554-2B		NAVD-7954-2B,Component video PC board ass'y <d></d>
00	1A972554-2C		NAVD-7954-2C,Component video PC board ass'y <a>
U4	1A972555-2B		NAETC-7955-2B,RS232 terminal PC board ass'y <d></d>
04	1A972555-2C		NAETC-7955-2C,RS232 terminal PC board ass'y <a>
U5	1A972560-1C		NADIS-7960-1C, Display circuit PC board ass'y
U6	1A972561-1C		NAETC-7961-1C,Headphone terminal PC board ass'y
U7	1A972562-1C		NAETC-7962-1C, Volume PC board ass'y
U8	1A972563-1C		NAVD-7963-1C, Front video terminal PC board ass'y
U9	1A972564-1C		NADG-7964-1C,Front optical input PC board ass'y
U10	1A972565-1C	1	NAETC-7965-1C,PC board for holder
U11	1A972566-1D		NAAF-7966-1D,Power amplifier PC board ass'y <d></d>
011	1A972566-1E		NAAF-7966-1E,Power amplifier PC board ass'y <a>
U12	1A972567-1D	1	NAETC-7967-1D, Thermal detector PC board ass'y <d></d>
012	1A972567-1D	 	NAETC-7967-1D, Thermal detector PC board ass y <d> NAETC-7967-1E, Thermal detector PC board ass'y <a></d>
U13		-	NAAF-7968-1D, Speaker terminal PC board ass'y <d></d>
013	1A972568-1D	-	
1114	1A972568-1E		NAAF-7968-1E, Speaker terminal PC board ass'y <a>
U14	1A972569-1D		NAETC-7969-1D,PC board for holder <d></d>
1145	1A972569-1E		NAETC-7969-1E,PC board for holder <a>
U15	1A972570-1D		NAETC-7970-1D, Secondary terminal PC board ass'y <d></d>
114.0	1A972570-1E		NAETC-7970-1E,Secondary terminal PC board ass'y <a>
U16	1A972571-1D	ļ	NAETC-7971-1D,PC board for cord Clamper <d></d>
1147	1A972571-1E		NAETC-7971-1E,PC board for cord Clamper <a>
U17	1A972572-1D		NAETC-7972-1D, PC board for holder <d></d>
1104	1A972572-1E		NAETC-7972-1E, PC board for holder <a>
U21	1A972574-1H		NAPS-7974-1H,Primary circuit PC board ass'y <d></d>
	1A972574-1I		NAPS-7974-1I,Primary circuit PC board ass'y <a>
		<u></u>	

REF.NO.	PART NO.	DESCRIPTION
U22	1A972575-1H	NAPS-7975-1H, Constant voltage circuit PC board ass'y <d></d>
	1A972575-1I	NAPS-7975-1I, Constant voltage circuit PC board ass'y <a>
U23	1A972576-1D	NAETC-7976-1D, PC board for holder <d></d>
	1A972576-1E	NAETC-7976-1E, PC board for holder <a>
U24	1A972577-1H	NAETC-7977-1H,Primary terminal PC board ass'y <d></d>
	1A972577-1I	NAETC-7977-1I,Primary terminal PC board ass'y <a>
U25	1A972581-1H	NAETC-7981-1H, PC board for cord clamper <d></d>
	1A972581-1I	NAETC-7981-1I, PC board for cord clamper <a>
U26	1A972582-1H	NAETC-7982-1H,Main connector PC board ass'y <d></d>
	1A972582-1I	NAETC-7982-1I, Main connector PC board ass'y <a>
U27	1A972583-1H	NAAF-7983-1H, Pre output terminal PC board ass'y <d></d>
	1A972583-1I	NAAF-7983-11, Pre output terminal PC board ass'y <a>
U28	1A972584-1H	NAAF-7984-1H,Driver circuit PC board ass'y <d></d>
	1A972584-1I	NAAF-7984-1I, Driver circuit PC board ass'y <a>
U30	1A972577-1H	NAETC-7979-1H,AC inlet terminal PC board ass'y <d></d>
	1A972577-1I	NAETC-7979-1I,AC inlet terminal PC board ass'y <a>
U36	240138A,	ENG06501QR,
	240134A or	TFCE1U114B or
	240146	FAE385-A02F,Tuner unit <d></d>
	240139A,	ENG07501QR,
	240135 or	TFCE1E512A or
	240147	FAE485-E02F, Tuner unit <a>
PACKING	VIEW-PARTS LI	ST ST
REF.NO.		DESCRIPTION
	PART NO.	
71	29092052	Pad
72	29100153	1020x720,Polybag
73	29110149	Cellophane tape
74	29110148	PP tape
75 76	29100097-1A	350*250,Polybag
76	29054045	Carton box
77	29363395	Label UPC
81	29363059A	Label, cable
83	29343499	Instruction manual, English
86	29343500	Instruction manual, digest
87	24140534	RC-534M,Remote controller
88	3010054	R6/AA(UM-3), Two batteries
89	232140	NMA-3057,AM loop antenna
90	292191	FM antenna
92	25065462	YAE21-0237,Antenna adapter <a>
93	29365089A	Warranty card <d></d>
96	292186	Accessory ass'y
96a 96b	28330137 28330146	Cap, front Cap, optical

DSP CIRCUIT PC	BOARD (NADG-7952-2B/2C)	
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q110,Q111	22241383R2 or	NJM4565M-D or
Q300	22240581R2	NJM4565M
Q113,Q114	22241943R2	CS5333-KZ
Q301	22241787R3	TC9274F-020
Q302	22241761R3	BD3811K1
Q303~Q306	22241383R2 or	NJM4565M-D or
	22240581R2	NJM4565M
Q307,Q308	22241383R2 or	NJM4565M-D or
,	22240581R2	NJM4565M
Q309,Q310	22241785R2	BD3812F
Q311	222780073R2	78L07(SMT)
Q312	222790073R2	79L07(SMT)
Q700	22241947R3	MB86D42PFV
Q7001	22241982R3	MPD703030BYGC-J03-8EU
Q7005	22274000GR2TO	TC74VHCT00AFT
Q7006	22274004HR2TO	TC74VHCU04FT
Q701	22274074ER2TO or	TC74VHC74FT or
	22274074IR2TI	SN74AHC74PWR
Q703	22241847R3	MB86344BPFV
Q704	22240935R2	TC7WU04FU
Q705,Q706	22241887R2 or	CY7C1019CV33-15VCT or
α. σσ, α. σσ	22241612R2	CY7C1019BV33-15VCT
Q707	22240935R2	TC7WU04FU
Q751	22274074ER2TO or	TC74VHC74FT or
<u> </u>	22274074IR2TI	SN74AHC74PWR
Q800	22241945R3	CS42528-CQ
Q801~Q804	22241383R2 or	NJM4565M-D or
	22240581R2	NJM4565M
Q9501	222780125	78M12HF
Q9502	222790125	79M12HF
Q9506	222780054NEC	MPC7805HF
Q9508	22278028DR2JR	NJM2391DL1-285
Q9509	22278033BR2JR	NJU7200U33
Q9510	22278033DR2NE or	MPC2933T or
	22278033DR2JR	NJM2391DL1-33
Q9512	222790055	79M05FA
Q9513	222780053R2JR	NJM78L05UA
	Transistors	
Q400,Q401	2214530R2 or	RN2402 or
,	2216220R2	KRA102S
Q402	2214530R2 or	RN2402 or
	2216220R2	KRA102S
Q403,Q404	2214490R2 or	RN1404 or
,	2216210R2	KRC104S
Q405	2214490R2 or	RN1404 or
	2216210R2	KRC104S
Q7002	2214490R2 or	RN1404 or
	2216210R2	KRC104S
Q9503	2215024	2SD1468S-R
Q9504	2212853 or	2SB1068-K or

Q9504 or	2212855	2SB1068-U
Q9505	2214470R2 or	RN1402 or
	2216190R2	KRC102S
Q9507	2202314 or	2SA1726-Y or
	2202315	2SA1726-P
Q9511	2214530R2 or	RN2402 or
	2216220R2	KRA102S
	Diodes	
D101~D108	223234R2 or	1SS352 or
D300,D300	223269R2	1SS355
D7001~D7003	223234R2 or	1SS352 or
D7005	223269R2	1SS355
D7004	224660624R2,	HZU6.2B,
	224550620R2 or	UDZS6.2B or
	224490620R2	UDZ6.2B
D800~D807	223234R2 or	1SS352 or
D9501,D9511	223269R2	1SS355
	Oscillators	
X700	3010368R2	XTL-13.5M,Crystal
X7001	3010329R2	CSTCV16.00MXJ0C,Ceramic
X701	3010324R2	CSTCV12.2MTJ0C4,Ceramic
	Coils and Filters	1
L131,L132	231237M022R2 or	NCH-1471 or
L708,L751	233533M022R2	NCH-1587-022M
L7001,L701	231237K220R2 or	NCH-1477 or
L704	233533K220R2	NCH-1587-220K
L703,L9501	231237K470R2 or	NCH-1479 or
	233533K470R2	NCH-1587-470K
L705~L707	230958R1	BK1608LM182-T
L753	231237K470R2 or	NCH-1479 or
	233533K470R2	NCH-1587-470K
L800,L801	231237M022R2 or	NCH-1471 or
1803	233533M022R2	NCH-1587-022M
R7095,R7096	230958R1	BK1608LM182-T
,	Capacitors	
C101,C102	394680337 or	CE04W50V-3.3M(VR) or
,	394780337	CE04W50V3.3M(SC),Elect.
C116	393344707	CE04W16V-47M(VX),Elect.
C117~C119	393344707	CE04W16V-47M(VX),Elect.
C122~C125	373021224R2	ECHU50V-122J,Plastic
C133,C138	394680477 or	CE04W50V-4.7M(VR) or
,	394780477	CE04W50V4.7M(SC),Elect.
C306,C307	373022214R2	ECHU50V-221J,Plastic
C308,C309	373022214R2	ECHU50V-221J,Plastic
C324,C325	393384707	CE04W50V-47M(VX),Elect.
C326,C327	393322217	CE04W6.3V-220M(VX),Elect.
C328,C329	373021524R2	ECHU50V-152J,Plastic
C330,C331	373021234R2	ECHU50V-123J,Plastic
C332,C333	373023924R2	ECHU50V-392J,Plastic
C334,C335	394644707 or	CE04W16V-47M(VR) or
· · · · · · · · · · · · · · · · · · ·		
	394744707	CE04W16V47M(SC),Elect.
C338,C339	394744707 373022724R2	ECHU50V-272J,Plastic

C341	373022724R2	ECHU50V-272J,Plastic
C342,C343	373021224R2	ECHU50V-122J,Plastic
C350~C353	394642217 or	CE04W16V-220M(VR) or
	394742217	CE04W16V220M(SC),Elevt.
C358~C363	393341007	CE04W16V-10M(VX),Elect.
C366,C367	373023324R2	ECHU50V-332J,Plastic
C368,C369	373045634R2	ECHU16V-563J,Plastic
C373~C376	393341007	CE04W16V-10M(VX),Elect.
C377,C379	393382207	CE04W50V-22M(VX),Elect.
C378	393341007	CE04W16V-10M(VX),Elect.
C380~C383	393341007	CE04W16V-10M(VX),Elect.
C384	393382207	CE04W50V-22M(VX),Elect.
C400	393341007	CE04W16V-10M(VX),Elect.
C403,C404	393341007	CE04W16V-10M(VX),Elect.
C405,C406	393341007	CE04W16V-10M(VX),Elect.
C410,C411	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
C412	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
C7002,C7004	394680107 or	CE04W50V-1M(VR) or
	394780107	CE04W50V1.0M(SC),Elect.
C7009 ,C719	394621017 or	CE04W6.3V-100M(VR) or
C720,C721	394721017	CE04W6.3V100M(SC),Elect.
C7010	394624707 or	CE04W6.3V-47M(VR) or
	394624707	CE04W6.3V-47M(VR),Elect.
C764~C766	394621017 or	CE04W6.3V-100M(VR) or
C807,C816	394721017	CE04W6.3V100M(SC),Elect.
C802,C803	373022224R2	ECHU50V-222J,Plastic
C804	394680107 or	CE04W50V-1M(VR) or
	394780107	CE04W50V1.0M(SC),Elect.
C809,C813	394623317 or	CE04W6.3V-330M(VR) or
	394723317	CE04W6.3V330M(SC),Elect.
C819~C822	373024724R2	ECHU50V-472J,Plastic
C823	373043334R2	ECHU16V-333J,Plastic
C835,C836	373041534R2	ECHU16V-153J,Plastic
C843,C844	394642217 or	CE04W16V-220M(VR) or
C9501	394742217	CE04W16V220M(SC),Elect.
C9503	375521044	MMT50V-104J,Plastic
C9508	394664707 or	CE04W35V-47M(VR) or
	394764707	CE04W35V47M(SC),Elect.
C9509,C9510	394542217	CE04W16V-220M(VZ),Elect.
C9511	394644707 or	CE04W16V-47M(VR) or
	394744707	CE04W16V47M(SC),Elect.
C9514,C9515	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
C9520,C9522	394522217	CE04W6.3V-220M(VZ)
C9527	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
	Resistors	
R782	43474056004R1 or	RM0KJ560X04 or
R787~R791	43474456004R1	RM4KJ560X4,Array
R9501	442621204	RS1WBJ-12,Metal oxide
R9502	441622204	RS1WBJ-22,Metal oxide

R9505	441623304	RS1WBJ-33,Metal oxide
R9507	441720394	RS2WBJ-3.9,Metal oxide
R9510	441720154	RS2WBJ-1.5,Metal oxide
11.0010	Terminals	1.0244B0 1.3,Wetai Oxide
P300	25045565 or	NPJ-6PDBL380 or
1 000	25045583	NPJ-6PDRW394
P301,P302	25045565 or	NPJ-6PDBL380 or
1 001,1 002	25045583	NPJ-6PDRW394
P303	25045734	NPJ-6PDWRLEGP522
1 000	Sockets	IN O OF DWINELOT OZZ
JL9501B	25050269	NSCT-5P97
P101A	25052211 or	NSCT-15P2108 or
1 10171	25051822	NSCT-15P1609
P101A	25051814	NSCT-7P1601
P308	2009990788UL	NSAS-26P1149
P309	2009990789UL	NSAS-6P1150
P6931B	25052579R2	NSCT-13P2476
P7501B	25052574R2	NSCT-8P2471
	Plugs	1.001 01 2 11 1
P105B,P107B	25055712	NPLG-20P668
P2808A	25055149	NPLG-5P133
P304	25055133	NPLG-3P117
P7503B	25055624	NPLG-3P586
P7701	25055704	NPLG-8P660
1 7701	Heat sink	141 20 01 000
Q9501B	27160500	RAD-165
QUUID	Isolated sheet	100
Q9507B	223026	ISO SHEET
Q0007 D	Isolated washer	100 OFFICE F
Q9507C	223032	TO-66(1)
Q0007 C	Pan head screws	10 00(1)
		2D : 40EN/DO)
D9005B Q9501A	182143010	I 13P+10FN(BC)
D9005B,Q9501A	82143010 82143010	3P+10FN(BC) 3P+10FN(BC)
D9005B,Q9501A Q9506A,Q9507A	82143010 82143010	3P+10FN(BC)
Q9506A,Q9507A	82143010	
Q9506A,Q9507A VIDEO CIRCUIT PO	82143010 C BOARD (NADG-7953-2C)	
Q9506A,Q9507A	82143010 C BOARD (NADG-7953-2C)	
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of	82143010 C BOARD (NADG-7953-2C)	3P+10FN(BC)
Q9506A,Q9507A VIDEO CIRCUIT PO	82143010 C BOARD (NADG-7953-2C) nly PART NO.	
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of	82143010 C BOARD (NADG-7953-2C)	3P+10FN(BC)
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO.	82143010 C BOARD (NADG-7953-2C) nly PART NO. ICs	3P+10FN(BC) DESCRIPTION
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204	82143010 C BOARD (NADG-7953-2C) nly PART NO. ICs 22241946R2 22241779	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO.	82143010 C BOARD (NADG-7953-2C) nly PART NO. ICs 22241946R2	3P+10FN(BC) DESCRIPTION NJM2595M
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205	82143010 C BOARD (NADG-7953-2C) nly PART NO. ICs 22241946R2 22241779 22241221R2	3P+10FN(BC) DESCRIPTION NJM2595M
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206	82143010 C BOARD (NADG-7953-2C) PART NO. ICs 22241946R2 22241779 22241221R2 22241849R2 222740046R2	3P+10FN(BC) DESCRIPTION NJM2595M
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206	82143010 C BOARD (NADG-7953-2C) INIU PART NO. ICS 22241946R2 22241779 22241221R2 22241849R2	3P+10FN(BC) DESCRIPTION NJM2595M
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206 Q211	82143010 C BOARD (NADG-7953-2C) PART NO. ICS 22241946R2 22241779 22241221R2 22241849R2 222740046R2 Photo couplers 24120080	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836 TC9164AF MM1512 74HCU04F PC817X
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206 Q211	82143010 C BOARD (NADG-7953-2C) PART NO. ICs 22241946R2 22241779 22241221R2 22241849R2 222740046R2 Photo couplers 24120080 24120101	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836 TC9164AF MM1512 74HCU04F PC817X TORX179L
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206 Q211 Q207 U201,U202	82143010 C BOARD (NADG-7953-2C) PART NO. ICS 22241946R2 22241779 22241221R2 22241849R2 222740046R2 Photo couplers 24120080 24120101 24120102	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836 TC9164AF MM1512 74HCU04F PC817X
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206 Q211 Q207 U201,U202 U203	82143010 C BOARD (NADG-7953-2C) PART NO. ICS 22241946R2 22241779 22241221R2 22241849R2 222740046R2 Photo couplers 24120080 24120101 24120102 Transistors	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836 TC9164AF MM1512 74HCU04F PC817X TORX179L TOTX179L
Q9506A,Q9507A VIDEO CIRCUIT PO Australian model of CIRCUIT NO. Q201~Q203 Q204 Q205 Q206 Q211 Q207 U201,U202	82143010 C BOARD (NADG-7953-2C) PART NO. ICS 22241946R2 22241779 22241221R2 22241849R2 222740046R2 Photo couplers 24120080 24120101 24120102	3P+10FN(BC) DESCRIPTION NJM2595M LC74763-9836 TC9164AF MM1512 74HCU04F PC817X TORX179L

D222, Q223)221	2213145R2	2SC2712-GR
December Color			
D201-D203			
Diodes Diodes Diodes Diodes Diodes Diodes Display	•		
D201-D203			
223269R2	201~D203		1SS352 or
Name			
X201 3010363			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
X202 3010364 HC-49/U0317.734M	201		HC-49/U0314.318M.Crvstal
Coils and Filters			
L201-L203			
L205,L208	201~L203		NCH-1471 or
L204 L207			
L206			
L209 232136 NSRF-2046 L210 231237K022R2 or NCH-1471 or 233533K022R2 NCH-1587-022K Capacitors C203,C232 394644707 or CE04W16V-47M(VR) or C219~C226 394641007 or CE04W16V-10M(VR) or C219~C226 394641007 or CE04W16V-10M(VR) or C237~C239 394621017 or CE04W6.3V-100M(VR) or C249,C250 394721017 CE04W6.3V-470M(VR) or C245,C248 394624717 or CE04W6.3V-470M(VR) or C251 394621017 or CE04W6.3V-470M(VR) or C255 394721017 CE04W6.3V-100M(VR) or C255 39462207 or CE04W6.3V-100M(VR) or C255 39472207 CE04W16V-22M(VR) or C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C269 394680107 CE04W50V-1M(VR) or C270 394683397 CE04W50V-1M(VR) or C271 394680107 CE04W50V-1M(VR) or C274 394680107 CE0			
L210 231237K022R2 or NCH-1471 or 233533K022R2 NCH-1587-022K Capacitors Cepacitors C203,C232 394644707 or CE04W16V-47M(SC), Elect. C219~C226 394641007 or CE04W16V-10M(VR) or C237~C239 394621017 or CE04W16V-10M(SC), Elect. C249,C250 394721017 CE04W6.3V-470M(VR) or C245,C248 394624717 or CE04W6.3V-470M(SC), Elect. C251 394621017 or CE04W6.3V-470M(SC), Elect. C251 394622017 or CE04W6.3V-100M(VR) or C255 394642207 or CE04W6.3V-10M(VR) or C255 394642207 or CE04W16V-22M(VR) or C259 394680107 or CE04W16V-22M(SC), Elect. C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C270 394683397 CE04W50V-1M(VR), elect. C271 394683397 CE04W50V-0.33M(VR), Elect. C272 394680107 CE04W50V-0.3M(VR), Elect. C273 375522234 MMT50V-223J, Plastic <td></td> <td></td> <td></td>			
Capacitors			
Capacitors Capacitors C203,C232 394644707 or CE04W16V-47M(VR) or 394744707 CE04W16V47M(SC),Elect. C219-C226 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V-10M(VR) or C237-C239 394621017 or CE04W6.3V-100M(VR) or C249,C250 394721017 CE04W6.3V-470M(VR) or C245,C248 394624717 or CE04W6.3V-470M(VR) or C251 394621017 or CE04W6.3V-100M(VR) or C251 394621017 or CE04W6.3V-100M(SC),Elect. C255 39462207 or CE04W6.3V-100M(SC),Elect. C255 39468207 or CE04W16V-22M(VR) or C259 394680107 or CE04W50V-1M(VR) or G269 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C270 394780107 CE04W50V-1M(VR) or C273 375522234 MMT50V-223J, Plastic C274 394680107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or 275 374726824 EC			
C203,C232 394644707 or CE04W16V-47M(VR) or 3947744707 CE04W16V47M(SC), Elect. C219-C226 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V-10M(SC), Elect. C237-C239 394621017 or CE04W6.3V-100M(VR) or C249,C250 394721017 CE04W6.3V-100M(SC), Elect. C245,C248 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-100M(VR) or C251 394621017 or CE04W6.3V-100M(VR) or C255 39462207 or CE04W6.3V-100M(SC), Elect. C255 39468207 or CE04W16V-22M(VR) or C259 394680107 or CE04W50V-1M(VR) or C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C270 394780107 CE04W50V-1M(VR) or C271 394683397 CE04W50V-0.33M(VR), Elect. C272 394680107 CE04W50V-0.3M(VR), Elect. C273 375522234 MMT50V-223, Plastic C274 394680107 CE04W50V-1.0M(VR) or <td< td=""><td></td><td></td><td>1 </td></td<>			1
Systator Ceo4w16v47M(SC), Elect.	203.C232		CE04W16V-47M(VR) or
C219-C226 394641007 or CE04W16V-10M(VR) or 3947741007 CE04W16V10M(SC), Elect. C237-C239 394621017 or CE04W6.3V-100M(VR) or C249,C250 394721017 CE04W6.3V-100M(SC), Elect. C245,C248 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-470M(SC), Elect. C251 394621017 or CE04W6.3V-100M(VR) or C255 394721017 CE04W6.3V-100M(SC), Elect. C255 39472207 CE04W6.3V-100M(SC), Elect. C259 394680107 or CE04W16V-22M(SC), Elect. C259 394680107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or C270 394683397 CE04W50V-1M(VR) or C274 394680107 CE04W50V-1M(VR) or C274 394680107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C276<	200,0202		
394741007 CE04W16V10M(SC), Elect.	219~C226		
C237~C239 394621017 or CE04W6.3V-100M(R) or C249,C250 394721017 CE04W6.3V100M(SC), Elect. C245,C248 394624717 or CE04W6.3V-470M(YR) or 394724717 CE04W6.3V-470M(SC), Elect. C251 394621017 or CE04W6.3V-100M(YR) or C256,C257 394721017 CE04W6.3V-100M(SC), Elect. C255 394642207 or CE04W16V-22M(YR) or C259 394680107 or CE04W50V-1M(YR) or C259 394680107 CE04W50V-1M(YR) or C269 394680107 or CE04W50V-1M(YR) or C270 394683397 CE04W50V-0.33M(VR), Elect. C273 375522234 MMT50V-223J, Plastic C274 394680107 CE04W50V-1M(VR) or C274 394780107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C275 374726824 ECQ-B50V-682J, Plastic C276 394644707 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V-100M(VR) or			
C249,C250 394721017 CE04W6.3V100M(SC), Elect. C245,C248 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-70M(SC), Elect. C251 394621017 or CE04W6.3V-100M(VR) or C256,C257 394721017 CE04W6.3V-100M(SC), Elect. C255 394642207 or CE04W16V-22M(VR) or C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C269 394683397 CE04W50V-1M(VR) or C270 394683397 CE04W50V-0.33M(VR), Elect. C273 375522234 MMT50V-223J, Plastic C274 394680107 CE04W50V-1M(VR) or C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C276 394644707 or CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C281 394684707 or CE04W6.3V-100M(VR) or	237~C239		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
C245,C248 394624717 or 394724717 CE04W6.3V-470M(VR) or 394724717 C251 394621017 or CE04W6.3V-100M(VR) or C256,C257 394721017 CE04W6.3V-100M(SC),Elect. C255 39462207 or CE04W16V-22M(VR) or GE04W16V-22M(SC),Elect. C259 394742207 CE04W16V-22M(SC),Elect. C259 394680107 or CE04W50V-1M(VR) or GE04W50V-1M(VR) or GE04W6-3V-10M(VR) or GE04W6-3V-10M(VR) or GE04W6-3V-10M(VR) or GE04W6-3V-10M(VR) or GE04W6-3V-10M(VR) or GE04W6-3V-10M(VR) or GE04W50V-0.47M(VR) or GE04W6-3V-470M(VR) or GE04W6-3V-470M			` '
394724717 CE04W6.3V470M(SC), Elect.			
C251 394621017 or CE04W6.3V-100M(VR) or C256,C257 394721017 CE04W6.3V100M(SC),Elect. C255 394642207 or CE04W16V-22M(VR) or C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C269 3946839107 CE04W50V-1M(VR) or C270 39483397 CE04W50V-0.33M(VR),Elect. C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or 394780107 CE04W50V-1M(VR) or C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W16V-47M(VR) or C281 39468477 or CE04W6.3V-100M(VR) or C281 394684797 CE04W50V-0.47M(VR) or C291,C292 394641007 or CE04W16V-10M(VR) or C291,C292 394641007 CE04W16V-10M(VR) or	2 10,02 10		
C256,C257 394721017 CE04W6.3V100M(SC),Elect. C255 394642207 or CE04W16V-22M(VR) or C394742207 CE04W16V22M(SC),Elect. C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V-1M(VR) or C269 394680107 CE04W50V-1M(VR) or C270 394683397 CE04W50V-0.33M(VR),Elect. C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V-100M(VR) or C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V-10M(VR) or 394724717 CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-470M(VR) or 3947224717 CE04W6.3V-470M(VR) or	251		
C255 394642207 or CE04W16V-22M(VR) or 394742207 CE04W16V22M(SC), Elect. C259 394680107 or CE04W50V-1M(VR) or C269 394680107 or CE04W50V1.0M(SC), Elect. C270 394780107 CE04W50V1.0M(SC), Elect. C270 394683397 CE04W50V-0.33M(VR), Elect. C273 375522234 MMT50V-223J, Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C276 394644707 or CE04W16V-47M(VR) or C276 394644707 or CE04W16V-47M(SC) C280,C282 394621017 or CE04W6.3V-100M(VR) or C281 394621017 or CE04W6.3V-100M(VR) or C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J, Plastic C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W6.3V-470M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-470M(SC), Elect. C293~C296 </td <td></td> <td></td> <td></td>			
394742207 CE04W16V22M(SC), Elect.			
C259 394680107 or CE04W50V-1M(VR) or 394780107 CE04W50V1.0M(SC), Elect. C269 394680107 or CE04W50V-1M(VR) or C270 394683397 CE04W50V-0.33M(VR), Elect. C273 375522234 MMT50V-223J, Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J, Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V-100M(SC), Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J, Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or Terminals CE04W6.3V-470M(SC), Elect.			\ /
394780107 CE04W50V1.0M(SC),Elect.	259		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
C269 394680107 or CE04W50V-1M(VR) or 394780107 CE04W50V1.0M(SC),Elect. C270 394683397 CE04W50V-0.33M(VR),Elect. C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W16V-47M(SC) C288 394721017 CE04W6.3V-100M(VR) or C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V-10M(SC),Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V-470M(VR) or Terminals CE04W6.3V-470M(SC),Elect.			\ /
394780107 CE04W50V1.0M(SC),Elect.	269		
C270 394683397 CE04W50V-0.33M(VR),Elect. C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C281 394621017 CE04W6.3V100M(SC),Elect. C281 394684797 CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V-470M(SC),Elect. Terminals Terminals			
C273 375522234 MMT50V-223J,Plastic C274 394680107 CE04W50V-1M(VR) or 394780107 CE04W50V1.0M(SC),Elect. C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V-470M(SC),Elect. Terminals Terminals	270		<u> </u>
C274 394680107 CE04W50V-1M(VR) or C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V-470M(SC),Elect. Terminals Terminals			
394780107 CE04W50V1.0M(SC),Elect.			
C275 374726824 ECQ-B50V-682J,Plastic C276 394644707 or CE04W16V-47M(VR) or C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals			
C276 394644707 or CE04W16V-47M(VR) or 394744707 CE04W16V47M(SC) C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals	275		
394744707 CE04W16V47M(SC)			
C280,C282 394621017 or CE04W6.3V-100M(VR) or C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or C293~C296 394624717 or CE04W6.3V-470M(VR) or C293~C296 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals			
C288 394721017 CE04W6.3V100M(SC),Elect. C281 394684797 or CE04W50V-0.47M(VR) or 394784797 CE04W50V0.47M(SC),Elect. C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V10M(SC),Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals	280.C282		
C281 394684797 or CE04W50V-0.47M(VR) or 394784797 CE04W50V0.47M(SC), Elect. C283 375524744 MMT50V-474J, Plastic C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V10M(SC), Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V470M(SC), Elect. Terminals Terminals			
394784797 CE04W50V0.47M(SC),Elect.			
C283 375524744 MMT50V-474J,Plastic C291,C292 394641007 or CE04W16V-10M(VR) or S94741007 CE04W16V10M(SC),Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or S94724717 CE04W6.3V470M(SC),Elect. Terminals Terminals			
C291,C292 394641007 or CE04W16V-10M(VR) or 394741007 CE04W16V10M(SC),Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals	283		
394741007 CE04W16V10M(SC),Elect. C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals			
C293~C296 394624717 or CE04W6.3V-470M(VR) or 394724717 CE04W6.3V470M(SC),Elect. Terminals Terminals	, -		
394724717 CE04W6.3V470M(SC),Elect. Terminals	293~C296		
Terminals			` '
P201 25045689 NPJ-2PDO486	2201	25045689	NPJ-2PDO486

P202	25045728	NPJ-15PDBY516
P205	25045730	NPJ-10PDBY518
P206	25045730	HSJ1002-01-1020
F 200	Sockets	11331002-01-1020
P207B	25051235	NSCT-10P1025
P207B	25051235	NSCT-10F1025
F200D	25051527	NSC1-10F1314
COMPONENT VIDE	O PC BOARD (NADG-7954	
CIRCUIT NO.	PART NO.	- · · · · · ·
CIRCUIT NO.		DESCRIPTION
Q2202	ICs 22241465R2	LA7106MFP
		TA1270BF
Q2203	22241851R3	
Q2217	222780053	78L05
Q2255,Q2256	22241383R2	NJM4565M-D
00004	Transistors	DNI4404
Q2201	2214460R2 or	RN1401 or
00004	2216330R2	KRC101S
Q2204	2216330R2 or	KRC101S or
00044 00040	2214460R2	RN1401
Q2211,Q2213	2212855 or	2SB1068-U or
00040 00044	2212853	2SB1068-K
Q2212,Q2214	2216190R2 or	KRC102S or
	2214470R2	RN1402
Q2215	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q2216,Q2218	2216175R2 or	KTC3875-GR or
Q2219,Q2222	2213145R2	2SC2712-GR
Q2220,Q2221	2216190R2 or	KRC102S or
Q2223	2214470R2	RN1402
Q2251,Q2252	2215410R2	RN1441
Q2253,Q2254	2215410R2	RN1441
Q2257	2216220R2 or	KRA102S or
Q2257 or	2214530R2	RN2402
Q2271,Q2272	2215410R2	RN1441
	Diodes	
D2201,D2202	223234R2 or	1SS352 or
D2212	223269R2	1SS355
D2211,D2213	22380260 or	RL1N4003 or
	22380035	GP104003E
	Oscillators	
X2201	3010370	CSBLA503KECZF30,Ceramic
X2202	3010369	HC-49/U033.579545M,Crystal
	Capacitors	
C2203~C2205	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
C2206,C2208	394621017 or	CE04W6.3V-100M(VR) or
C2229	394721017	CE04W6.3V100M(SC),Elect.
C2210	394644707 or	CE04W16V-47M(VR) or
	394744707	CE04W16V47M(SC),Elect.
C2212	375522234	MMT50V-223J,Plastic
C2215,C2216	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
C2217,C2218	374721024	ECQ-B50V-102J,Plastic

C2219	375522234	MMT50V-223J,Plastic
C2219 C2220,C2222	394680227 or	CE04W50V-2.2M(VR) or
<u> </u>	394780227	CE04W50V2.2M(SC),Plastic
C2221,C2228	375521044	MMT50V-104J,Plastic
C2221,C2226	374722224	ECQ-B50V-222J,Plastic
C2226	394682297	CE04W50V-0.22M(VR),Elect.
C2220	375521044	MMT50V-104J
C2254 C2252		
C2251,C2252	393380227	CE04W50V-2.2M(VX),Elect.
C2253,C2254	393341007	CE04W16V-10M(VX), Elect.
C2255,C2256	393380227	CE04W50V-2.2M(VX), Elect.
C2261,C2262	393361007	CE04W35V-10M(VX),Elect.
C2263,C2264	393341007	CE04W16V-10M(VX),Elect.
C2268,C2269	394641007 or	CE04W16V-10M(VR) or
	394741007	CE04W16V10M(SC),Elect.
	Thermistors	
R2215,R2216	4000195	RXE030
	Resistor	
R2220	443524714	RS1/2WBJ-470,Metal oxide
	Relays	
RL2201,RL2202	25065645	NPL-2P1A-DC4.5-169
RL2203,RL2204	25065645	NPL-2P1A-DC4.5-169
	Terminals	
P2203	25045732	NPJ-9PDGLR520
P2204~P2206	25045647	HSJ1002-01-1020
P2208	25045598	HEC0470-01-630
P2209	25045424	NPJ-2PDBL249
P2211	25045696	LGY2502-0200C
	Sockets	
P2201B	25051230	NSCT-5P1020
P2202B	25051232	NSCT-7P1022
P2207	25052662	NSCT-8P2558
P2210B	25051232	NSCT-7P1022
P2212B	25051233	NSCT-8P1023
	C BOARD (NAETC-7955-2B/20	
CIRCUIT NO.	PART NO.	DESCRIPTION
	IC	
Q2821	22241537R2	MPD4721GS
	Coil	
L2821	230948R2	BLM21A102F
	Capacitors	
C2821	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
C2822,C2824	394680107 or	CE04W50V-1M(VR) or
C2825,C2826	394780107	CE04W50V1.0M(SC),Elect.
	Sockets	
P2808B	2002A391040	NSAS-10P1152
P2822	25052379	NSCT-9P2277
DISPLAY CIRCUIT F	PC BOARD (NADIS-7960-1C)	
CIRCUIT NO.	PART NO.	DESCRIPTION
	FL tube	
Q7501	212229	HNA-16MM39T

	ICs	
Q7502	22241971R3	MPD780232GC-085-8BT
	Remote sensor	
U7501	241348	RPM7138-H9
	Transistors	
Q7503	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q7504	2216230R2 or	KRA103S or
	2214540R2	RN2403
Q7505	2216190R2 or	KRC102S or
	2214470R2	RN1402
Q7581	2216190R2 or	KRC102S or
	2214470R2	RN1402
Q7582	2216190R2 or	KRC102S or
	2214470R2	RN1402
Q7583	2216190R2 or	KRC102S or
	2214470R2	RN1402
Q7701	2216190R2 or	KRC102S or
	2214470R2	RN1402
	Diodes	
D7501	224490820R2,	UDZ8.2B,
	224550820R2 or	UDZS8.2B or
	224660824R2	HZU8.2B
D7502	224490510R2,	UDZ5.1B,
	224550510R2 or	UDZS5.1B or
	224660514R2	HZU5.1B
D7503	223234R2 or	1SS352 or
	223269R2	1SS355
D7505	224490270R2,	UDZ2.7B,
	224660274R2 or	HZU2.7B or
	224550270R2	UDZS 2.7B
D7506~D7508	223234R2 or	1SS352 or
D7701,D7702	223269R2	1SS355
D7581	225290	SEL4110R
D7583	225291D	SEL4910D-D
D7584	225374	SEL2E10C
	Oscillator	
X7501	3010242	CST5.00MGW,Ceramic
	Coils and Filters	
L7504	231237M022R2	NCH-1471
L7505	231237M022R2	NCH-1471
	Capacitors	
C7502	394684707 or	CE04W50V-47M(VR) or
	394784707	CE04W50V47M(SC),Elect.
C7514,C7705	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
C7521,C7540	394622217 or	CE04W6.3V-220M(VR) or
	394722217	CE04W6.3V220M(SC),Elect.
C7523,C7550	375524744	MMT50V-474J,Plastic
C7524	3000120 or	FMC0H104Z or
	3000121	SCDA5R5104A,Super for back-up
_	Resistors	
R7591,R7593	49163104415	RM1/10IJ-100K*15,Array

R7592	49163104412	RM1/10IJ-100K*12,Array
002	Relay	13377 7010 70013 72,7 11149
RL7701	25065610 or	NRL-2P1A-DC4.5-156 or
TKEP FOT	25065645	NPL-2P1A-DC4.5-169
	Switches	141 2 21 17 20 110 100
S7611~S7618	25035699 or	NPS-111-S662 or
S7621~S7624	25035714	NPS-111-S677
S7619	25035699 or	NPS-111-S662 or
S7619	25035714	NPS-111-S677
S7625	25035699 or	NPS-111-S662 or
S7625	25035714	NPS-111-S677
S7626~S7628	25035699 or	NPS-111-S662 or
S7631~S7638	25035714	NPS-111-S677
S7629	25035699 or	NPS-111-S662 or
S7629	25035714	NPS-111-S677
S7641~S7643	25035699 or	NPS-111-S662 or
07041 07040	25035714	NPS-111-S677
S7644	25035714 25035699 or	NPS-111-S662 or
07044	25035714	NPS-111-S677
S7645~S7647	25035714 25035699 or	NPS-111-S662 or
37043~37047	25035099 01	NPS-111-S677
	Sockets	NF 5-111-3011
JL7501A	25051087	NSCT-3P874
JL7502A	25051089	NSCT-5P876
P7501A	25052345	NSCT-8P2242
P7502A	25052343	NSCT-11P2141
F 7 502A	Plugs	N3C1-11F2141
P7504	25056056	NPLG-8P1006
F 7 304	Holders	INFEG-OF 1000
Q7501A	27190989A	(FL)
QIJOIA	21190909A	
HEADPHONE TER	MINAL PC BOARD (NAETC-7	7961-1C)
CIRCUIT NO.	PART NO.	DESCRIPTION
	Coils	DESCRIPTION
L7701	231237M022R2	NCH-1471
L7703,L7704	231237M022R2	NCH-1471
L7700,L7701	Capacitors	110111111
C7703	374722215	ECQ-B50V-221K,Plastic
01100	Terminal	LOG BOOV ZZTICH Idollo
P7705	25045385	YKB26-5153
1 7700	Socket	TRB20 0100
JL7502B	25051089	NSCT-5P876
0L7 002D	20031003	14001 31 070
VOLUME PC BOAI	RD (NAETC-7962-1C)	+ +
CIRCUIT NO.	PART NO.	DESCRIPTION
	Rotary encoder	
S7501	25065628	EC12E24C25
C7 00 1	Sockets	1012227020
JL7501B	25051087	NSCT-3P874
0270010	20001007	
ERONT VIDEO PC	BOARD (NAVD-7963-1C)	+ +
CIRCUIT NO.	PART NO.	DESCRIPTION
CINCUIT NO.		DESCRIFTION
	Terminal	

P2553	25045678	NPJ-3PDB475
F 2000	Sockets	ווירט-טרטס47ט
DOOC		NCAC 10D1150
P209C	2009990792UL	NSAS-10P1159
P2501C	2009990513UL	NSAS-6P0675
P2554	25051569	NSCT-4P1356
EDONE OBTION	<u> </u>	1 10
	NPUT PC BOARD (NADG-79	
CIRCUIT NO.	PART NO.	DESCRIPTION
	Photo coupler	
U2601	24120108	GP1FA513RZ
	Coil	
L2601	231237M022R2	NCH-1471
	Capacitor	
C2601	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
	Resistor	
R2601	435032214R1	RN72K1J-221JE
	Socket	
JL7503A	25051087	NSCT-3P874
POWER AMPLIFIE	R PC BOARD (NAAF-7966-	1D/1E)
CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q6010~Q6015	2213284 or	2SC1740S-R or
Q6020~Q6025	2213285	2SC1740S-S
Q6030~Q6032	2203010	2SC5171
Q6033~Q6035	2203434 or	KTD2061-Y or
<u> </u>	2203010	2SC5171
Q6040~Q6042	2203000	2SA1930
Q6043~Q6045	2203424 or	KTB1369-Y or
Q0010 Q0010	2203000	2SA1930
Q6070~Q6075	2214984 or	2SC2631-R or
Q0070 Q0070	2214985	2SC2631-S
Q6070~Q6075	2215896,	KTC3200-BL,
Q0070 Q0070	2215895,	KTC3200-GR,
	2210755,	2SC1775A-E,
	2210756,	2SC1775A-F,
	2211733 or	2SC1845-E or
	2211732	2SC1845-F
Q6303,Q6304	2215995,	KTA1267-GR,
Q0303,Q0304	2213354 or	2SA933S-R or
	2213355	2SA9335-N 01 2SA933S-S
Q6601~Q6603		
	2215864,	KTC3199-GR,
Q6901	2213284,	2SC1740S-R,
	2213285 or	2SC1740S-S or
0.704.00700	2212115	2SC2458-GR
Q6701,Q6702	2215896,	KTC3200-BL,
	2215895,	KTC3200-GR,
	2210755,	2SC1775A-E,
	2210756,	2SC1775A-F,
	2211733 or	2SC1845-E or
	2211732	2SC1845-F
Q6703	2215885,	KTA1268-GR,

	2215886,	KTA1268-BL,
	2211793 or	2SA992-E or
	2211792	2SA992-F
	Diodes	
D6000~D6005	223163,	1SS133,
D6010~D6015	223205 or	1SS270A or
D6306,D6307	223222	WG713A
D6701,D6702	223163,	1SS133,
D6906	223205 or	1SS270A or
	223222	WG713A
D6703,D6704	224470512	MTZJ5.1B
D6707	224470512	MTZJ5.1B
D6904,D6905	22380337	D10XB60H
	Capacitors	
C604~C6045	394684707	CE04W50V-47M(VR),Elect.
C6050~C6055	374721034	ECQ-B50V-103J,Plastic
C6230~C6235	374724734	ECQ-V50V-473J,Plastic
C6701,C6706	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
C6704	394680107 or	CE04W50V-1M(VR) or
	394780107	CE04W50V1.0M(SC),Elect.
C6708	374722224	ECQ-B50V-222J,Plastic
C6901,C6902	3504374	CE69W71V-15000M,Elect.
C6904,C6905	374733344	ECQ-V100-334J,Plastic
C6906,C6907	374721044	ECQ-V50V-104J,Plastic
	Resistors	
R6040~R6045	5210258	N06HR1KBC,Trimming
R6070~R6075	415471214	R25J-120,NF carbon
R6080~R6085	415470224	R25J-2.2,NF carbon
R6090~R6095	415470224	R25J-2.2,NF carbon
R6100~R6105	4000201,	RF-5EGKR22,
	4000132 or	RGC55 0.22 or
	4500245	BPR55FK0.22,Metal plate
R6230~R6235	453630824	RNU1WCJ-8.2,Metal
R6750,R6751	443523914	RS1/2WBJ-390,Metal oxide
	Relays	
RL6901	25065584,	NRL-1P10A-DC12-140,
	25065516 or	NRL-1P10A-DC12-097 or
	25065588	NRL-1P10A-DC12-143
RL6902	25065584 or	NRL-1P10A-DC12-140 or
	25065516	NRL-1P10A-DC12-097
	Fuse holders	
F6901A,F6901B	25052133	NSCT-1P2031 <a>
F6901A,F6901B	250113	SN5051 <d></d>
F6902A,F6902B	25052133	NSCT-1P2031 <a>
F6902A,F6902B	250113	SN5051 <d></d>
	Sockets	
JL6402A	25051088	NSCT-4P875
JL6803A,JL6804A	25051110	NSCT-6P897
JL6805A	25051108	NSCT-4P895
JL6951A,JL6952A	25051109	NSCT-5P896
JL6953A	25051092	NSCT-8P879
P6931A	25052313	NSCT-13P2210

	Plugs	
P6000A~P6004A	25056010	NPLG-5P0960
P6005A	25056017	NPLG-12P0967
P6080~P6085	25055038	NPLG-2P29
P6301,P6302	25055038	NPLG-2P29
P931A	25055701	NPLG-5P657
	Label	
F6901C	29362801	T10AL250V <a>
	Heat sink	1 10/122001 1/10
D6904A	27160499	RAD-164
2000 17 (Bar	10.0
P6011A	27141860	(BUS-D)
	Pan head screws	
Q9512A	82143010	3P+10FN(BC)
D6904B	82143010	3P+10FN(BC)
2000.2	52666	
THERMAL DETECTO	OR PC BOARD (NAETC-796	57/73-1D/1E)
CIRCUIT NO.	PART NO.	DESCRIPTION
	Thermistors	
R6380	4000153	PTH9M04BF222TS2F333
R6381	4000150	PTH9M04BC222TS2F333 <a>
	4000218	PTFL04BE471Q2N34B0 (90) <d>N</d>
	Socket	
JL6402B	25051088	NSCT-4P875
SPEAKER TERMINA	L PC BOARD (NAETC-796	8-1D/1E)
CIRCUIT NO.	PART NO.	DESCRIPTION
	Diodes	
D6600,D6604	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
D6601	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Coils and Filters	
L6800~L6805	231176S	S-1.3C
	Capacitors	
C6840~C6847	374721034	ECQ-B50V-103J,Plastic
C6850~C6857	374721024	ECQ-B50V-102J,Plastic
	Resistors	
RL6600,RL6601	25065563,	NRL-2P5A-DC24-129,
RL6603,RL6604	25065586,	NRL-2P5A-DC24-142,
	25065517 or	NRL-2P5A-DC24-098 or
	25065636	NRL-2P5A-DC24-164
	Terminals	
P6802	25060334	NTM-8PDMN265 <d></d>
P6802	25060327	NTM-8PDMN258 <a>
P6803	25060333	NTM-8PDMN264 <d></d>
P6803	25060329	NTM-8PDMN260 <a>
	Sockets	
JL6803B,JL6804B	25050283	NSCT-6P111
JL6805B	25050281	NSCT-4P109
0200000		1.001 11 100
<u> </u>		1 [

SECONDARY TERM	INAL PC BOARD (NAETC	-79 7 0-	-1D/1E)
CIRCUIT NO.	PART NO.		DESCRIPTION
	Capacitors		
C9591	374721044		ECQ-V50V-104J,Plastic
	Resistors		
R9591,R9592	453530104		RNU1/2WCJ-1,Metal
R9594	453530104		RNU1/2WCJ-2.7 <d></d>
R9594	453530104		RNU1/2WCJ-4.7 <a>
110004	Fuse holders		10001/2000 4.7 0/0
F9501A,F9501B	25052133	+	NSCT-1P2031
1 330 17,1 330 10	Sockets	- 1:	11001-11 2001
JL6951B,JL6952B	25051109		NSCT-5P896
JL9502A	25051109		NSCT-7P898
JL950ZA			NSC1-7P090
E0E040	Label		TO 5 AL 050\/ A
F9501C	29361747		T2.5AL250V <a>
	 PC BOARD (NAPS-7974-1)	 ⊔/4 I\	
CIRCUIT NO.	PART NO.	"/)	DESCRIPTION
CIRCUIT NO.			DESCRIPTION
0004	Transistors		KTC2400 CD
Q921	2215864,	-	KTC3199-GR,
	2213284,		2SC1740S-R,
	2213285 or		2SC1740S-S or
	2212115		2SC2458-GR
	Diodes		
D921~D924	22380260 or		RL1N4003 or
	22380035		GP104003E
D925	223163 or		1SS133 or
	223205		1SS270A,Diode
	Power transformer		
T902	2301381	!	NPT-1358D <d></d>
T902	2301382	!	NPT-1358P <a>r
	Capacitors		
C901	3500196S	!	RE275V-103M,IS
C922	394662217		CE04W35V-220M(VR),Elect.
C923	374721024		ECQ-B50V-102J,Plastic
	Resistors		
R924	443526804		RS1/2WBJ-68,Metal
	Relays		,
RL901	25065584 or	!	NRL-1P10A-DC12-140 or
	25065516	!	NRL-1P10A-DC12-097
	Fuse holders		
F901A,F901B	25052133	1	NSCT-1P2031 <d></d>
F902A,F902B	25052133	i i	NSCT-1P2031 <a>
F903A,F903B	25052133	<u>;</u>	NSCT-1P2031
1 000/1,1 0000	Terminal	- -	11001 11 2001
P902	25051126	- -	NSCT-4P913 <d></d>
P902	25052115	1	NSCT-2P2013 <a>
	Sockets	+	11001 21 2010 172
P931A	25051230		NSCT-5P1020
1 3317		-	11001-05 1020
D001 A	Plugs		NDI C 2D624 or
P901A	25055675 or	 !	NPLG-2P631 or
	25056028	!	NPLG-2P0978
	Labels		

F903C	29361747	T2.5AL250V
F903C	29301747	12.5AL250V
CONSTANT VOLTA	ACE CIDCUIT DC BOARD (A	
	AGE CIRCUIT PC BOARD (N	
CIRCUIT NO.	PART NO.	DESCRIPTION
00004	_	N. INAZONACOEA
Q9001	222780565JRC	NJM78M56FA
00000	Transistor	1/TA 4000 OB
Q9002	2215975 or	KTA1266-GR or
Q9002 or	2211455	2SA1015-GR
	Diodes	
D9001~D9004	22380260 or	RL1N4003 or
D9009~D9011	22380035	GP104003E
D9005	22380271,	D3SBA20,
	22380285 or	RS403M or
	22380022	RBV402
D9012	224472704	MTZJ27D
D9013	22380260 or	RL1N4003 or
	22380035	GP104003E
	Capacitors	
C9001,C9002	375523344	MMT50V-334J,Plastic
C9003	394661027S	CE04W35V-1000M(VR),Elect.
C9004	394664717	CE04W35V-470M(VR),Elect.
C9005	375523344	MMT50V-334J,Plastic
C9009	394662217	CE04W35V-220M(VR),Elect.
C9010	394644727S	CE04W16V-4700M(VR),Elect.
C9011	394651027S	CE04W25V-1000M(VR),Elect.
C9013	394641007	CE04W16V-10M(VR),Elect.
C9014	394674717S	CE04W63V-470M(VR),Elect.
C9017	374721024	ECQ-B50V-102J,Plastic
••••	Resistors	1 2 2 2 3 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 2 3 1 1 2 3 1 1 2 3 1 2
R9001	443523304	RS1/2WBJ-33,Metal oxide
R9002	443522204	RS1/2WBJ-22,Metal oxide
R9006	453530474	RNU1/2WCJ-4.7,Metal
110000	Sockets	1440 1/24400 4.7 jivietai
JL9501A	25051109	NSCT-5P896
JL9502B	25050271	NSCT-7P99
P7502B	25052207	NSCT-11P2104
F 7 302D	Plug	NOC1-11F2104
JL6953B	25055629	NPLG-8P591
JL0900D		INFLG-0F391
D9005A	Heat sink 27160211	RAD-68
D9000A		KAD-00
DCOOED	Pan head screw	2D : 40EN/DC)
D6905B	82143010	3P+10FN(BC)
AO DU ET TERM	AL DO DO ADD (114 570 505	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	AL PC BOARD (NAETC-797	
CIRCUIT NO.	PART NO.	DESCRIPTION
D004D	Terminal	L LUDI O ODO 40
P901B	25055960	NPLG-2P913
	R CIRCUIT PC BOARD (NAE	
CIRCUIT NO.	PART NO.	DESCRIPTION
	IC	
Q2903	222780093JRCT	NJM78L09A

	Transistors		
Q2901	2215960 or		KRC102M or
	2213290		DTC114ES
Q2902	2212855 or		2SB1068-U or
Q2908,Q2909	2212853		2SB1068-K
Q2904,Q2905	2215960 or		KRC102M or
Q2906,Q2907	2213290		DTC114ES
α2000,α200.	Capacitors		51011120
C2902	394642217 or		CE04W16V-220M(VR) or
	394742217		CE04W16V220M(SC),Elect. <d></d>
C2903	394621017		CE04W6.3V-100M(VR),Elect.
C2904	374722234		ECQ-B50V-223J,Plastic
C2905	394644707 or		CE04W16V-47M(VR) or
	394744707		CE04W16V47M(SC),Elect.
	Thermistors		(00),=:00:
R2904,R2905	4000195		RXE030
112001,112000	Sockets		10.12000
P105B,P107B	25051241		NSCT-20P1031
1 1000,1 1010	Plugs		11001 201 1001
P2001A	25055703		NPLG-7P659 <d></d>
P207A	25055706		NPLG-10P662
P208A	25055805		NPLG-16P761
P2201A	25055701		NPLG-5P657
P2202A	25055701		NPLG-7P659
P2210A	25055703		NPLG-7F659
P2210A P2212A	25055704		NPLG-7F039 NPLG-8P660
F2212A	25055704		NPLG-0P000
DDE OUTDUT TED	 MINAL PC BOARD (NAA	E 7002 1	
CIRCUIT NO.	PART NO.	1F-7 903-1	DESCRIPTION
CINCOIT NO.	Capacitors		DESCRIPTION
C6880~C6882	374721024		ECQ-B50V-102J,Plastic
C6890~C6899	374721024		ECQ-B50V-1023,Flastic
C0090~C0099	Terminals		LCQ-D30V-1023,Flastic
P6810	25045424		NPJ-2PDBL249
P6811	25045734		NPJ-6PDWRLEGP522
P6812	25045735		NPJ-2PDNT523
F0012	Socket		NF J-2F DIN 1 323
II 5001 A			NSCT-12P883
JL5801A	25051096		NSC1-12P003
	 PC BOARD (NAAF-7984-1	1 11/11)	
CIRCUIT NO.	PART NO.	,,	DESCRIPTION
OIIXOOTT IXO.	Transistors		DEGOKII TION
Q5000~Q5002	2211733 or	*	2SC1845-E or
Q3000° Q3002	2211732	*	2SC1845-F
Q5003~Q5005	2215896,	*	KTC3200-BL,
Q3003~Q3005	2210755,	*	2SC1775A-E,
	2210755, 2210756 or	*	2SC1775A-E, 2SC1775A-F or
	2211733	*	2SC1775A-F 01 2SC1845-E
Q5010~Q5012	2211733 or	*	2SC1645-E 2SC1845-E or
QJU1U~QJU1Z		*	2SC1845-F
OE012 OE01E	2211732	*	
Q5013~Q5015	2215896,	*	KTC3200-BL,
	2210755,	*	2SC1775A-E,
	2210756 or	, and the second	2SC1775A-F or

	2211733	* 2SC1845-E
Q5020~Q5022	2211793 or	2SA992-E or
	2211792	2SA992-F
Q5030~Q5032	2202094 or	2SA1360-Y or
	2202093	2SA1360-O
Q5033~Q5035	2215844,	KTA1024-Y,
	2215843,	KTA1024-O,
	2211354 or	2SA949-Y or
	2211353	2SA949-O
Q5040~Q5042	2202104 or	2SC3423-Y or
	2202103	2SC3423-O
Q5043~Q5045	2215854,	KTC3206-Y,
	2215853,	KTC3206-O,
	2211634 or	2SC2229-Y or
	2211633	2SC2229-O
Q5050~Q5052	2212115,	2SC2458-GR,
	2213284 or	2SC1740S-R or
	2213285	2SC1740S-S
Q5053~Q5055	2215864,	KTC3199-GR,
Q5801,Q5802	2213284,	2SC1740S-R,
,	2213285 or	2SC1740S-S or
	2212115	2SC2458-GR
Q5060~Q5079	2213631 or	RN1241-A or
	2213632	RN1241-B
	Diodes	
D5000~D5005	224470562	MTZJ5.6B
D5801,D5804	223163 or	1SS133 or
,	223205	1SS270A
D5802	224470512	MTZJ5.1B
	Capacitors	
C5000~C5005	374721015	ECQ-B50V-101K,Plastic
C5010~C5015	393381007	CE04W50V-10M(VX),Elect.
C5020~C5025	394681007	CE04W50V-10M(VR),Elect.
C5030~C5035	374721015	ECQ-B50V-101K,Plastic <a>
C5040~C5045	393342217	CE04W16V-220M(VX),Elect.
C5050~C5055	394684707	CE04W50V-47M(VR),Elect.
C5100~C5105	394691007	CE04W100V-10M(VR),Elect.
C5110~C5115	394691007	CE04W100V-10M(VR),Elect.
C5120~C5129	393381007	CE04W50V-10M(VX),Elect.
	Resistors	i i
D5803	417343304	R16J-33,Carbon
R5120~R5122	415474714	R25J-470,NF carbon
R5160~R5165	415471214	R25J-120,NF carbon
R5170~R5175	415471214	R25J-120,NF carbon
R5180~R5185	415471004	R25J-10,NF carbon
R5190~R5195	415471004	R25J-10,NF carbon
	Relays	
RL5801,RL5802	25065645	NPL-2P1A-DC4.5-169
,	Sockets	
P6000B~P6004B	25052288	NSCT-5P2185
P6005B	25052295	NSCT-12P2192
	Plugs	
JL5801B	25055633	NPLG-12P595

P308A	25055156	NPLG-12P140
P309A	25055147	NPLG-3P131
	Bar	
P6011B	27141859	(BUS-U)
VIDEO CIRCUIT PO	BOARD (NAVD-7988-1B)	
U.S.A. model only		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q2001	22241858R2	MM1093NF
Q2005	22241850R2	TC90A69F
Q201~Q203	22241946R2	NJM2595M
Q204	22241779	LC74763-9836
Q205	22241221R2	TC9164AF
Q2051	22241443R2	TK15420M
Q206	22241849R2	MM1512
Q211	222740046R2	74HCU04F
	Photo couplers	
Q207	24120080	PC817X
U201,U202	24120101	TORX179L
U203	24120102	TOTX179L
	Transistors	
Q2002~Q2004	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q2071	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q208~Q210	2215510R2	RN1443
Q212~Q216	2215510R2	RN1443
Q218~Q220	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q221	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q222,Q223	2216031R2	RN1444-A
Q224	2216220R2 or	KRA102S or
	2214550R2	RN2404
	Diodes	
D201~D203	223234R2 or	1SS352 or
	223269R2	1SS355
	Oscillators	
X2001	3010369	HC-49/U033.579545M,Crystal
X201	3010363	HC-49/U0314.318M,Crystal
	Coils	
L2001	231237K330R2	NCH-1478
L2002~L2006	231237K220R2 or	NCH-1477 or
L2008	233533K220R2	NCH-1587-220K
L2007,L2009	231237K101R2 or	NCH-1481 or
L2010	233533K101R2	NCH-1587-101K
L201,L202	231237K022R2 or	NCH-1471 or
L208,L210	233533K022R2	NCH-1587-022K
L207	231292J056R2	NCH-1572
L209	232136	NSRF-2046
_	Capacitors	
C2002	394621017 or	CE04W6.3V-100M(VR) or

	394721017	CE04W6.3V100M(SC),Elect.
C2003	394680227 or	CE04W50V-2.2M(VR) or
	394780227	CE04W50V2.2M(SC),Elect.
C2007	394680477 or	CE04W50V-4.7M(VR) or
	394780477	CE04W50V4.7M(SC),Elect.
C2012,C2032	394684797 or	CE04W50V-0.47M(VR) or
0_0:_,0_00_	394784797	CE04W50V0.47M(SC),Elect.
C2015,C2016	394644707 or	CE04W16V-47M(VR) or
C203	394744707	CE04W16V47M(SC),Elect.
C2021,C2033	394621017 or	CE04W6.3V-100M(VR) or
C2034	394721017	CE04W6.3V100M(SC),Elect.
C2022	375521044	MMT50V-104J,Plastic
C2023	374726814	ECQ-B50V-681J,Plastic
C2035,C2036	394644707 or	CE04W16V-47M(VR) or
02000,02000	394744707	CE04W16V47M(SC),Elect.
C2041,C2042	394621017 or	CE04W6.3V-100M(VR) or
C237~C239	394721017	CE04W6.3V100M(SC),Elect.
C2071	394644707 or	CE04W16V-47M(VR) or
02011	394744707	CE04W16V47M(SC),Elect.
C219~C226	394641007 or	CE04W16V-10M(VR) or
0210 0220	394741007	CE04W16V10M(SC),Elect.
C232	394644707 or	CE04W16V-47M(VR) or
0202	394744707	CE04W16V47M(SC),Elect.
C243,C245	394624717 or	CE04W6.3V-470M(VR) or
C248	394724717	CE04W6.3V470M(SC),Elect.
C249~C251	394621017 or	CE04W6.3V-100M(VR) or
C256,C257	394721017	CE04W6.3V100M(SC),Elect.
C255	394642207 or	CE04W16V-22M(VR) or
0200	394742207	CE04W16V22M(SC),Elect.
C259,C269	394680107 or	CE04W50V-1M(VR) or
0_00,0_00	394780107	CE04W50V1.0M(SC),Elect.
C270	394683397	CE04W50V-0.33M(VR),Elect.
C273	375522234	MMT50V-223J,Plastic
C274	394680107 or	CE04W50V-1M(VR) or
<u> </u>	394780107	CE04W50V1.0M(SC),Elect.
C275	374726824	ECQ-B50V-682J,Plastic
C276	394644707 or	CE04W16V-47M(VR) or
	394744707	CE04W16V47M(SC),Elect.
C280,C282	394621017 or	CE04W6.3V-100M(VR) or
	394721017	CE04W6.3V100M(SC),Elect.
C281	394684797 or	CE04W50V-0.47M(VR) or
0_0.	394784797	CE04W50V0.47M(SC),Elect.
C283	375524744	MMT50V-474J,Plastic
C288	394621017 or	CE04W6.3V-100M(VR) or
5-55	394721017	CE04W6.3V100M(SC),Elect.
C291,C292	394641007 or	CE04W16V-10M(VR) or
- ,	394741007	CE04W16V10M(SC)
C294~C296	394624717 or	CE04W6.3V-470M(VR) or
	394724717	CE04W6.3V470M(SC)
	Terminals	\/
P201	25045689	NPJ-2PDO486
P202	25045728	NPJ-15PDBY516
T ZUZ		

P206	25045647	HSJ1002-01-1020
	Sockets	
P2001B	25051232	NSCT-7P1022
P207B	25051235	NSCT-10P1025
P208B	25051527	NSCT-16P1314
	Plugs	
P209A	25055236	NPLG-5P220

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